REMEDIAL SITE ASSESSMENT DECISION - EPA REGION V

EPA ID: ILD981538689 **Site Name:** CHICAGO INDUSTRIAL WASTE HAULERS **State ID:**

Alias Site Names: CHICAGO INDUSTRIAL WASTE HAULERS

City: ALSIP

Refer to Report Dated: 9/22/2009 **County or Parish:** COOK **State:** IL

Report Developed By: STATE **Report Type:** EXPANDED SITE INSPECTION 001

[X] **1. Further Remedial Site Assessment Under CERCLA (Superfund) is not required because:**

NFRAP-Site does not qualify for the NPL based on existing information

[ ] **2. Further Assessment Needed Under CERCLA:**

Discussion/Rationale:

The U.S. Environmental Protection Agency (EPA) has determined that no further remedial action by the Federal Superfund program is warranted at the referenced site, at this time. The basis for the no further remedial action planned (NFRAP) determination is provided in the attached document. A NFRAP designation means that no additional remedial steps under the Federal Superfund program will be taken at the site unless new information warranting further Superfund consideration or conditions not previously known to EPA regarding the site are disclosed. In accordance with EPA's decision regarding the tracking of NFRAP sites, the referenced site may be removed from the CERCLIS database and placed in a separate archival database as a historical record if no further Superfund interest is warranted. Archived sites may be returned to the CERCLIS site inventory if new information necessitating further Superfund consideration is discovered.

Site Decision Made by: ERICA ISLAS, SAM

Signature: Erica Islas **Date:** 09/22/2009

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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DOUGLAS P. SCOTT, DIRECTOR

February 25, 2009

Ms. Erica Islas
Early Action Coordinator
Office of Superfund
Region 5 Offices
U.S. Environmental Protection Agency
77 West Jackson
Chicago, Illinois 60604

Ms. Islas:

Please find enclosed a copy of Expanded Site Inspection Reports Analytical Results, Referral Memorandum, and QUICKSCORE worksheets, for the following Illinois site that was scheduled for Fiscal 2008 completion.

SITE NAME	ILD NUMBER	COUNTY	PRIORITY RANK
Chicago Industrial Waste Haulers	981538689	Cook	NFA

We are please to provide you with the attached reports. Should you have any questions or comments concerning this submission please feel free to contact me, or the authors of the specific report.

Sincerely,

Thomas Crause
Manager, Office of Site Evaluation
Division of Remediation Management
Bureau of Land
Illinois Environmental Protection Agency

LPC#0310030001
Chicago Industrial Waste Haulers
ILD# 981 538 689
SF/Tech

CERCLA

Expanded Site Inspection

Illinois Environmental
Protection Agency

Expanded Site Inspection

For:

Chicago Industrial Waste Haulers
LPC# 0310030001
ILD981 538 689
Alsip, Illinois

PREPARED BY:
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF LAND
DIVISION OF REMEDIATION MANAGEMENT
OFFICE OF SITE EVALUATION

February 26, 2009

Regional EPA Approval: Erica Islas Erica Olsen 9/22/09

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1.0 Introduction

On April 11, 2007, the Illinois Environmental Protection Agency's (Illinois EPA) Office of Site Evaluation was tasked by the United States Environmental Protection Agency (U.S. EPA) Region V to conduct an Expanded Site Inspection (ESI) at the Chicago Industrial Waste Haulers site in Alsip, Illinois. Chicago Industrial Waste Haulers, ILD981538689, is located at 4206 West Shirley Lane in Alsip, IL, Cook County. The latitude is 41.670853 and longitude is -87.725589.

The objective of an Expanded Site Inspection (ESI) is to collect the data necessary to prepare a Hazard Ranking System (HRS) scoring package. The ESI is designed to investigate and document critical hypotheses or assumptions not fully tested during previous investigations. During this phase of the ESI samples are collected to fully establish background conditions, fill in data gaps, or establish attribution to site operations. Data collected during the ESI or previous investigations will be used to assess the relative threat associated with the release or potential release of a hazardous substance from the site using the Hazard Ranking System. Based on the Hazard Ranking System score generated at the conclusion of the ESI, the site will then either be designated as No Further Action (NFA), referred to another state or federal cleanup program, or recommended for placement onto the National Priorities List (NPL). The ESI is performed under the authority of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) commonly known as Superfund.

Chicago Industrial Waste Haulers was added to the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) in May of 1989 by the U.S. EPA. This action was taken by the Emergency Response section of the CERCLA program as a result of an administrative order for immediate removal action.

2.0 Site Background

2.1 Site Description

Chicago Industrial Waste Haulers (CIWH) is located at 4206 Shirley Lane in Alsip, IL. The site is in the northeastern quarter, Section 27, Township 37 North, Range 13 East of the Third Principal Meridian, Cook County. The site currently is divided into two sections: a one acre plot to the north, an adjacent three acre plot to the south. The one acre parcel is occupied by a trucking container yard and the three acre parcel is occupied by a truck and trailer repair shop. Both businesses are located on the plot of land known as the former Chicago Industrial Waste Haulers. Chicago Industrial Waster Haulers primarily operated on the three acre parcel. The two plots of land are separated by a chain link fence.

North and northeast of the CIWH site lays Stony Creek. North of Stoney Creek is a residential area and Prairie View Park. Prairie View Park is a small park that is operated by the Alsip Park District. South of the CIWH site is a light metal manufacturing facility. Southwest of the site are railroad tracks and a chemical waste management facility. East of the site is a

trucking company and northwest of the site is a vacant parcel of land owned by the city of Alsip.

The three acre parcel is currently occupied by tractor trailers, vehicles, shipping containers and scrap metal. There is one building located on the three acre parcel and a trailer on the one acre parcel. The one acre parcel is occupied by tractor trailers and shipping containers. There was an above ground diesel storage tank located on the one acre parcel. The tank was located along the south fence line that separates the two parcels of land on the one acre parcel.

2.2 Site History

The CIWH was a former waste oil storage facility located at 4206 Shirley Lane in Alsip, IL. In 1947, the CIWH site, which was originally marshland, was filled in with dirt, gravel, broken concrete, and asphalt by Chicago Tank Cleaners (CTC). Operations at the site began around 1950 when CTC used the property to store waste materials derived during the cleaning of industrial petroleum tanks. Illinois EPA files indicate that CTC stored the tank contents, such as oil, while they repaired or cleaned the tanks. CTC would later place the tank contents back into the tank. CTC also accepted waste oil from service stations, factories, and spills and sold it for reclamation and dust control (IEPA 1990). CTC operated two vacuum trucks and one tanker truck. In 1979, they stored approximately 100,000 gallons, using 25 to 30 onsite storage tanks of various sizes (IEPA 1990).

In 1981, the CIWH site received a permit from the Illinois EPA Division of Air Pollution Control to operate ten storage tanks. Later that same year, the facility received permits from the Division of Land Pollution Control to develop and operate a waste management site to store and transfer special liquid waste (Screening Site Inspection Report 1994). The facility was granted a second permit from the Division of Air pollution Control in February of 1986 for the operation of 11 storage tanks to be used for storing tank bottoms, number 6 oils (similar to diesel oil) and lube oils.

In 1986, CTC changed its name to Chicago Industrial Waste Haulers and began storing a variety of waste materials onsite, including slop emulsion solids, waste oil-water mixtures, waste oil-solvent mixtures, tank bottoms, No. 6 oils, lube oils, and oils containing polychlorinated biphenyls (PCB's). The company discontinued onsite operations later in 1986. Beverly Bank and Trust became the trustee for CIWH. The President of CIWH is Mr. Kevin Prunsky. Mr. Prunsky also owns Pollution Control Industries of America (PCIA). In approximately 1996 the property was leased to Al's Truck and Trailer Repair and this facility still operates on this property today.

Section 2.3 Previous Investigations

The site was placed on the Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) in May 1989 by the U.S. EPA. This action was taken by the emergency response section of the Comprehensive Environmental Response, Compensation, and Liability

Act (CERCLA) program as a result of an administrative order for immediate removal action.

In September 1984, two children were injured when they entered the CIWH facility and ignited vapors from one of the storage tanks while playing with matches. In October 1984, a sample of the contents from one storage tank showed the contents were hazardous by the characteristic of ignitability. Also, in October 1984, Illinois EPA performed a site inspection at CIWH. More than 15 violations of the Illinois Environmental Protection Act and the Rules and Regulations of the Illinois Pollution Control Board were noted (SSI report 1994). In 1987, Illinois EPA conducted a follow-up inspection of the original violations observed in 1984. During the 1987 inspection, all observed 1984 violations were again observed and 19 new violations were noted (SSI 1994).

In 1985 Illinois EPA received an anonymous complaint that tanks containing corrosive hazardous wastes were routinely rinsed from the containers and disposed of onto the ground, and that PCB oil leaked out of drum and was not properly removed (SSI 1994).

In March 1989, a Spill Prevention Control and Countermeasure (SPCC) inspection at the CIWH site first brought the site to the U.S. EPA's attention. A site assessment conducted later that month by the U.S. EPA's Technical Assistance Team (TAT) documented the presence of 24 above-ground storage tanks with PCB and flammable labels and numerous unlabelled drums onsite.

In April 1989, the U.S. EPA issued a Unilateral Administrative Order (UAO) requesting that PCIA assume responsibility for the remaining site clean-up activities and determine the extent of contamination. In June 1989, PCIA pumped and disposed of all liquid hazardous wastes in onsite storage tanks. During 1989 and 1990, PCIA cleaned, dismantled, and removed the remaining onsite tanks. In addition, the UAO required that the extent of contamination in onsite soils be assessed in a comprehensive site investigation. In July 1990, PCIA screened the CIWH site for materials that cause or emit ionizing radiation. No readings above background were obtained (Woodward-Clyde 1990). At the same time, a 105 point sampling grid was established at the site (See Figure 5). Surface soil samples for PCB analysis were collected at each point from 0-6 inches and 6-12 inches. Twenty-nine surface soil samples contained PCB's, at levels ranging from 1-32ppm (Woodward-Clyde 1990).

Following the site investigation, a risk assessment was conducted for the site. Based on the results of the December 1990 risk assessment, the U.S. EPA required that surface soils be remediated to a level of 20 parts per million (ppm) PCB. Approximately 80 cubic yards of contaminated soil was removed from the site, as reported to the U.S. EPA in June 1992 (Woodward-Clyde 1992). Further investigations were still recommended even after the removal of the contaminated soil.

In September 19, 1990, a site reconnaissance was conducted by the Illinois EPA as part of the CERCLA Preliminary Assessment. The facility was

secured with a lockable gate, and several tanks were cut open for dismantling. The Preliminary Assessment assigned a medium priority to the CIWH site for a CERCLA Screening Site Inspection (SSI) (Illinois EPA 1990).

A SSI was conducted for U.S. EPA by Black and Veatch Waste Science, Inc. in 1993. On October 4, 1993, three surface water and three sediment samples were collected from Stony Creek and nine surface soil samples were collected from the CIWH site. The SSI identified two sources, contaminated soil and an onsite underground storage tank (UST). The areas of affected soil contained releases of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticide/PCB's, and inorganic analytes (Black and Veatch, 1994).

Section 2.4 Regulatory Status

Based upon available file information the Chicago Industrial Waste Haulers site does not appear to be subject to Resource Conservation and Recovery Act (RCRA) corrective action authorities at this time. Information currently available does not indicate that the site is under the authority of the Atomic Energy Act (AEA), Uranium Mine Tailings Action (UMTRCA), or the Federal Insecticide Fungicide or Rodenticide Act (FIFRA).

The following background information pertains to CIWH past violations issued by U.S. EPA as well as Illinois EPA. In January 1983 a Compliance Agreement Final Order (CAFO) was issued by U.S. EPA for untimely notification. In June of 1985 the facility was referred to the Illinois Attorney

General's Office (IAGO) for significant non-compliance with RCRA Interim Status standards pertaining to hazardous waste storage facilities. The referral was withdrawn due to inaction by the IAGO. In July 1987 a referral for a Compliance Order was made by Illinois EPA to U.S. EPA for CIWH violations of RCRA Interim Status Standards pertaining to hazardous waste storage facilities. The referral was withdrawn in November 1987.

In December 1988 an inspection was conducted by the Field Operations Section (FOS) at the CIWH facility. An FOS representative observed 43 drums on site. It was noted that most drums were not dated and labeled and all were in poor condition. Also ten tanks were observed. The operator on site stated that the drums had been there for 4-5 years and that they contained product, however he could not identify the specific contents. The containers were eventually sampled by PCIA and determined to be hazardous waste. It was recommended by FOS in April 1989 that CIWH be referred to U.S. EPA for enforcement due to non-compliance and continued violations such as storing hazardous waste on site and transporting hazardous waste. The drums were removed in conjunction with a Unilateral Administrative Order issued by U.S. EPA.

3.0 Expanded Site Inspection Activities

Section 3.1 Sampling Activities

The ESI was conducted April 14-17, 2008 and June 25, 2008. The sampling team collected 21 soil samples, six surface water samples, six

sediment samples, six groundwater samples, and six filtered groundwater samples.

Section 3.1.1 Soil Sampling

Twenty-one soil samples were collected during the ESI conducted at CIWH. Samples X101-X108, X110-X112, X114-X119, and X121-X124 were analyzed for VOC, SVOC, pesticide/PCB, and inorganic. Figure 2 illustrates the approximate location of all soil samples collected. Tables 1-4 contain the analytical values for all soil samples collected.

The soil samples were collected from the CIWH property as well as the playground located directly north of the site across from Stoney Creek and a background sample collected west of CIWH. The soil samples were collected using a Geoprobe. The geoprobe is a truck-mounted, hydraulically driven device used to advance steel rods with a core-sampling tool attached to the end of the rod string. The core-sampling tool is able to remove soil from a desired sample depth. The sample depth was determined by visually examining each four-foot core and by the readings on the Flame Ionization Detector (FID), Photo Ionization Detector (PID), and X-Ray Flouresence (XRF).

Soil sample X101 collected hexavalent chromium and inorganics from 2-3 feet and organics were collected from 7-8 feet (See Appendix D). The 2-3 foot core consisted of fill material with mottled brown mix of gravel with sand; wet at 3.5 feet (see Appendix D). The 7-8 foot section consisted of mottled

brown and gray, gravelly silt, moist and hard with a trace of clay. An XRF reading of 2190 Cr was detected at 2 feet. Soil sample X102 collected organics from 6-8 feet and inorganics and hexavalent chromium from 8.5-9.5 feet. Chromium was detected with the XRF from 6-7 feet. The sample consisted of dark gray to black clayey moist silt which graded to mottled brown gravely silt consisting of hard clay (See Appendix D).

Sample X103 was collected from 7-8 feet and consisted of dark gray silty clay that was stiff and moist. Inorganics and organics were collected from the same depth. Sample X104 was collected from 8-10 feet. The sample consisted of mottled brown/gray clayey silt; medium stiffness; moist. Sample also had a sheen and what looked like product. Inorganics and organics were both collected from this depth (See Appendix D).

Sample X105 was collected from two depths. The SVOC's, inorganics and Hexavalent chromium were collected from 0-2 feet in fill that consisted of a mixture of gravel sand, silt and loose pieces of concrete. The XRF had a reading of 312 ppm chromium at 1 foot. The VOC's were collected at 8-9 feet. The soil at nine feet consisted of mottled gray/rusty orange clayey silt; moist. Soil sample X106 was also collected from two depths. The SVOC, inorganic and hexavalent chromium were collected from 0-2 feet and consisted of fill with light and dark gray sand and gravel with concrete chunks. At one foot chromium was detected at 667 ppm. The VOC sample was collected at 10 feet. An MS/MSD sample was also collected at the 10

foot range. The soil at 10 feet consisted of dark to medium gray clayey silt with a trace of fine sand; moist (See Appendix D).

Sample X107 was collected from 0-2 feet. There were no readings on the PID or FID and an XRF reading at 2 feet indicated Chromium at 700 ppm. The sample consisted of fill with light and dark gray silt, sand and gravel, with concrete chunks. Sample X108 consisted of fill with white and gray sand and gravel with some silt and clay. The inorganics and hexavalent chromium was collected from two feet and the organics were collected from three feet (See Appendix D).

Due to poor recovery and no readings on the PID or XRF, sample X109 was not collected. Inorganics and hexavalent chromium were collected at 1-2 feet for sample X110 and the SVOCs and VOCs were collected from 10-11 feet. The 1-2 foot sample consisted of fill with the top foot containing dark gray sand and gravel; then a mix of brown/light gray sand and gravel with concrete pieces. A chromium reading of 755 was detected with the XRF at two feet.

Sample X111 consisted of mottled gray-brown clayey silt with sank and gravel; moist. Only VOCs, SVOCs, pesticide/PCBs were collected from this location. The sample was collected from 8.5-9.5 feet. Sample X112 consisted of brown and gray clayey silt with gravel. There was also a strong fuel odor present in the soil core. The sample was collected from 6-7. A soil sample for X113 was not collected (See Appendix D).

Sample X114 was collected from 0-3 feet and consisted of fill with a mix of sand and gravel with zones of silty clay from 0-2.5 feet and mottled dark gray and brown silty moist clay from 2.5-3 feet. Sample X115 is a duplicate of X114. Sample X116 consisted of mottled brown silty clay with traces of slag. The SVOC, inorganics, and hexavalent chromium were collected from 2-3 feet and the VOC were collected from 7-8 feet.

Sample X117 was collected near a 400 gallon diesel tank. The inorganic and hexavalent chromium samples were collected from 2-4 feet and consisted of a mix of gravel and sand. The XRF detected chromium at 589 ppm at 1 ft. The organics were collected from 8-9 feet and consisted of mottled gray/brown clayey silt that was soft and moist. Soil sample X118 was collected from 6-7 feet and had a strong petroleum odor. The soil was dark gray to black clayey silt that was moist. Sample X119 also had a strong petroleum odor and a sheen. VOCs and SVOCs were collected from 3-4 feet and inorganic and hexavalent chromium were collected from 0-2 feet.

Sample X120 was not collected because the geoprobe could not penetrate more than six inches into the ground. The sample location was abandoned. Sample X121 was collected as a background sample. The location was located west of CIWH on S. Kostner Ave. The sample was collected from 1-2 feet.

Sample X122 was collected from Prairie View Park located north of CIWH across Stoney Creek. The sample was collected from 8-10 inches and consisted of loose loam with organic material. An MS/MSD was collected

from same location. Sample X123 was collected from the same park from 8-10 inches and consisted of loose loam with some clay. Sample X124 is a duplicate of X123.

3.1.2 Groundwater Sampling

Six ground water samples were collected from five locations. Temporary well points were installed using the Geoprobe to collect all ground water samples. All inorganic ground water samples also had a filtered sample analyzed for metals. Figure 3 shows the approximate locations of all ground water sample locations. All ground water samples were purged and analyzed with a pH conductivity meter. The parameters measured included pH, conductivity, and temperature. Readings were taken approximately every five minutes until all three parameters stabilized.

Sample G101 was collected from the same location as X103. An MS/MSD ground water sample was collected as well. The sample location was screened from 5.5-9.5 feet. The sample had a petroleum odor and sheen on the water. The temporary well was purged for 20 minutes and 2.5 gallons were purged off. Ground water sample G102 was collected from the same location as soil sample X114. Sample G103 was a duplicate of G102.

Sample G104 was collected from the sample location as soil sample X116 (see figure 3). The temporary well was screened from 7-11 feet. The ground water was purged for 15 minutes before the sample was collected. Sample location G105 was screened from 6-10 feet and was also purged for 15

minutes before the sample was collected. The ground water sample was collected from same location as X117.

Ground water sample G106 was collected from soil location X119. The pH, conductivity and temperature were not collected due to visual contamination present in the ground water. The sample was allowed to purge for 15 minutes before the sample was collected. The location was screened from 3-7 feet.

3.1.3 Sediment and Surface Water Sampling

Six sediment samples were collected from five locations in Stoney Creek located adjacent to CIWH (see figure 4). Stoney Creek empties into the Calumet Sag Channel located approximately two miles downstream. Tables 13-16 contain the analytical values for all sediment sample collected.

Sediment sample X201 was collected upgradiant from CIWH (see Figure 4). The sample was collected approximately 100 feet upgradiant of the Kostner Street bridge and was collected as a background sample. The sample was collected in 8 inches – 1.5 feet of sediment beneath 7-8 inches of water. The material consisted of a black/dark brown sandy silt with small gravel. There was a slight organic odor.

Sample X202 was collected from the creek adjacent to the northwest corner of the CIWH. The sample location had a leachate seep with an oily sheen and a slight orange color coming from the south side of the creek. Fragmites, twigs, trees, and fly dumped material such as household waste

littered the south bank from which the leachate seep originated. The stream is estimated to be 20 feet wide at this location. The sample was dark brown/black silty sand. Sample was collected 10-15 inches below surface of sediment in approximately 5 inches of water.

Sample X203 was collected from the northwest corner of the park located across from CIWH (see Figure 4). The sample was collected from a leachate seep coming from the south bank of the creek. The leachate seep had an orange color with a sheen. There were several leachate seeps located along the bank adjacent to CIWH. The sample collected had a very silty, sandy and dark brown/black appearance with an organic odor. The sample was collected from 0-8 inches of sediment beneath 4 inches of water within the leachate seep.

Sample X204 was collected along the south bank adjacent to CIWH (see Figure 4). Sample X205 was also collected from this location and used as a duplicate to X204. The sample was collected approximately three feet from the shore in 3 inches of water. The sample was collected from 0-10 inches into the sediment. The sample was silty with less organic material; no odor. It was also noted that there appeared to be metal debris on the bank consistent with drums. It was noted in previous investigations and reports that drums were found in Stoney Creek.

Sediment sample X206 was collected downgradiant of CIWH. The sample was taken approximately six feet from the south bank beneath six

inches of water. The sample was collected from 4-6 inches of sediment consisting of black sandy silt with some organic material.

A surface water sample was collected from every sediment sample location as well and labeled S301-S306 (see Figure 4).

3.2 Analytical Results

This section presents results of the chemical analysis of soil, ground water, surface water and sediment samples collected by the Illinois EPA Office of Site Evaluation during the Expanded Site Inspection of Chicago Industrial Waste Haulers. Complete chemical analysis results of the samples are provided in tables 1-16.

Following sample collection, all samples were transferred to containers provided by Illinois EPA's Contract Laboratory Program. The sample containers were packaged and sealed in accordance with Illinois EPA's Office of Site Evaluation Quality Assurance Project Plan. The soil, sediment, ground water and surface water samples requiring hexavalent chromium analysis were sent to the U.S. EPA Central Regional Lab in Chicago, IL. Inorganic samples were sent to A4 Scientific in The Woodlands, TX. Samples requiring organic analysis were sent to Kap Technologies located in The Woodlands, TX. The three samples that were collected from the park were collected at a different time and therefore samples were sent to different labs. The inorganics were sent to ChemTech Consulting in Mountainside, NJ and the organics were sent to Mitkem Corp. in Warwick, RI. A complete

analytical data package for Chicago Industrial Waste Haulers is located in Volume 2 of the Expanded Site Inspection.

The criteria used to determine what is considered an observed release was based on those samples with concentrations considered to be at least three times those concentrations found in samples taken from background locations. Sample X121 was collected as the background sample and appeared to be impacted; therefore X121 was not used as the background sample (See Figure 2). Since X121 was impacted, sample X116 was used as the background.

3.2.1 Soil Results

Soil samples were collected at CIWH in an attempt to characterize potential sources of contamination. Analytical results for soil samples were compared to sample X116 in order to determine whether or not site activities have impacted soil at CIWH. Analytical results for soil samples collected during the ESI can be found in Tables 1-4 and 16-20. Figure 2 identifies the soil sampling locations.

A total of 21 soil samples were collected during the ESI. Soil sample X121 was collected to evaluate background conditions but due to contamination in X121, sample X116 was used as the background since it appeared to be less adversely impacted by CIWH.

Seventeen soil samples contained inorganics that met observed release criteria. Six different metals were detected at concentrations meeting

observed release criteria in seventeen soil samples. The metals include mercury, cadmium, lead, magnesium, zinc, and hexavalent chromium. Table 20 contains the key sample summary for inorganic soil analytical results.

Fourteen soil samples contained vocs that met observed release criteria. Seventeen different vocs were detected at concentrations meeting observed release criteria in fourteen soil samples. Benzene and xylene, located in ten out of fourteen samples, was the most prevalent compounds that met observed release criteria. All other compounds can be found in Table 17.

Twelve soil samples contained SVOCs that met observed release criteria. Twenty-four different SVOCs were detected at concentrations meeting observed release criteria in twelve soil samples. Benzo(a)pyrene, located in seven out of fourteen samples, was the most prevalent compound that met observed release criteria. All other compounds can be found in Table 18.

Seven soil samples contained pesticide and PCB's that met observed release criteria. The pesticide 4,4'-DDE and 4,4'-DDT were detected most often with concentrations that met observed release criteria. See Table 19 for all other compounds.

3.2.2 Ground Water Results

Ground water samples were collected at CIWH in an attempt to characterize potential sources of contamination. Six analytical ground water samples were compared to background sample G105 to determine if site activities have impacted the ground water at CIWH. Analytical results for the

ground water samples collected at CIWH can be found in tables 5-8 and 21-23.

Five of the ground water samples contained inorganics that exceeded the observed release criteria. Five inorganic compounds met observed release criteria. They are aluminum, calcium, iron, magnesium, and manganese. Table 23 contains the inorganics that met the observed release criteria.

Two of the ground water samples contained VOCs that exceeded the observed release criteria. The VOCs include cyclohexane, benzene, ethylbenzene, and m,p-xylene. All four compounds were found in G101 and only benzene was found in G106. Table 21 contains the VOCs that met the observed release criteria.

Two of the ground water samples contained SVOCs that exceeded the observed release criteria. They include phenol and 4-chloroaniline. Sample G101 contained Phenol above observed release criteria and G106 contained 4-chloroaniline above observed release criteria. Table 22 contains the SVOCs that met the observed release criteria.

3.2.3 Surface Water Results

The surface water results were compared to the background sample S301. There were no surface water samples that exceeded three-times-background criteria for observed release. The surface water samples were also compared to the Ontario Sediment and Ecotox Thresholds (see Appendix G). Based upon the comparison of the Ecotox Threshold there

were no organic compounds that exceeded the benchmark. There were no inorganic compounds that exceeded three times the background sample but there were a few inorganic compounds that exceeded the benchmark, but they only marginally exceeded the benchmark and were not listed in a key sample summary. The inorganic exceedences were not attributable to CIWH. Tables 9-12 contain the results for the surface water samples.

3.2.4 Sediment Results

The analytical results of the sediment samples are summarized in the key sample summary (Tables 24-26). There were six sediment samples that were compared to the background sample X201. None of the samples exceeded three times background. The samples were also compared to the Ontario Sediment quality benchmark. All samples that were included in the Key Sample Summary exceeded the Lowest Effect Level (LEL) although no samples exceeded the Severe Effect Level (SEL) or three times background. According to the sediment quality guidelines the LEL is defined as a level of sediment contamination that can be tolerated by the majority of benthic organisms (See Appendix G). Tables 13-16 contain the results for the sediment samples.

3.3 Additional Data

Part of the ESI investigation included an EM-61 survey. The EM-61 is a twin coil, high sensitivity metal detector capable of detecting a metal drum

three meters below the grounds surface. The twin coils allow surface metals to be filtered out of the readings (i.e. reinforced concrete). IEPA has found the EM-61 to be extremely useful in determining if underground storage tanks have been removed from sites that lack good historical information. The EM-61 survey is used as a screening tool only and does not definitively locate tanks or drums.

According to the EM-61 survey conducted at CIWH, the map produced during the survey indicates metallic anomalies in the location of former tanks or drums. It is not known if the tanks or drums had been previously removed. Additional sampling may need to be conducted in the future to definitively determine if these former tanks or drums still exist.

4.0 Site Sources

This section includes descriptions of the various hazardous waste sources that have been identified at CIWH. The Hazard Ranking System defines a "source" as: "Any area where a hazardous substance has been stored, disposed or placed, plus those soils that have become contaminated from migration of hazardous substance". This does not include surface water or sediments below surface water that has become contaminated.

Information obtained during the Expanded Site Inspection identified one source area, the landfill, as the source of contamination at CIWH. As additional information becomes available, the possibility exists that additional sources of contamination may exist.

4.1 Landfill

In 1947, the CIWH site, which was originally marshland, was filled in with dirt, gravel, broken concrete, and asphalt by Chicago Tank Cleaners (CTC). Operations began at the site around 1950 when Chicago Tank Cleaners, Inc. utilized the property for the storage of waste materials derived during the cleaning of industrial petroleum tanks. CTC changed its name to CIWH in 1986 and began storing a variety of waste materials onsite including slop oil emulsion solids, waste oil-water mixtures, waste oil-solvent mixtures, tank bottoms, No. 6 oil, lube oils, and PCB containing oil. The company discontinued operations at the site later that same year.

Based on information gathered during the ESI, the extent of contamination can be defined by the area of the site. Soil samples X101 through X121 were collected from the CIWH property. When compared to background sample X116, the samples collected on the landfill meet observed release criteria (See Table 17-20). The area of the landfill encompasses approximately 259,000 square feet. Figure 2 illustrates the approximate boundaries of the site.

4.2 Other Potential Sources

Additional sources that may be present and require further investigation include underground storage tanks and drums. The EM-61 survey and analytical data indicated that there may still be tanks or drums located on CIWH property. Sample X104 documented observed release contamination

which was sampled in the supposed location of former tanks or drums. The primary contaminants of concern in this area are benzene, toluene, and xylene, which are associated with petroleum based products.

5.0 Migration Pathways

As identified in CERCLA's Hazard Ranking System, the Office of Site Evaluation evaluates three migration and one exposure pathway. Sites are evaluated on their known or potential impact these pathways have on human health and the environment. The following paragraphs will evaluate the ground water, surface water, soil exposure, and air migration pathways.

5.1 Ground Water

Regional geologic reports indicate Alsip, IL is blanketed by unconsolidated, Quaternary age, glacial deposits. The glacial deposits are made up mostly of gray, silty clays with localized sand and gravel units. Thickness of the unconsolidated material varies between 10 and 60 feet (Black and Veatch 1994).

The Silurian dolomite aquifer lies directly beneath the site and is interconnected with the glacial deposits. The aquifer beneath the site is a shallow bedrock aquifer in Cook County that receives local recharge from precipitation. Silurian dolomite varies in thickness from several hundred feet to a maximum of nearly five hundred feet in the southeastern part of Cook

County. Depth to the upper surface of the dolomite varies from 10 to 60 feet throughout the area.

The deep bedrock aquifer system below Alsip, IL, is the Cambrian-Ordovician system. Depth to the Cambrian-Ordovician aquifer system is approximately 550 feet. The shallow aquifer system and the deep aquifer system are not thought to be interconnected because the Maquoketa shale lies directly below the Silurian dolomite (Black and Veatch 1994). The Maquoketa shale acts as an impermeable layer that could prevent the downward migration of water.

According to the Water Department personnel in Alsip, all residents of Crestwood, Oak Lawn, Merrionette Park, Worth and Blue Island use Lake Michigan surface water as their water supply source. Private wells located in these villages are not used for drinking purposes due to drinking water ordinances. Although, Palos Heights officials did acknowledge that some private wells located in the city limits may still be used for drinking water purposes. According to the Illinois State Geologic Survey, there are approximately 35 public wells located in Palos Heights that fall within the 4-mile radius of CIWH. These wells draw water from the Silurian dolomite aquifer.

5.2 Surface Water

The probable point of entry is defined as the point at which the overland segment of a hazardous substance migration path intersects with surface

water. The PPE is assigned as the point at which entry of the hazardous substance to surface water is most likely. The target distance limit (TDL) is the distance over which the in-water segment of the hazardous substance migration path is evaluated. The TDL extends 15 miles from the PPE in the direction of flow or to the most distant sample point establishing as observed release, whichever is greater. A PPE was never established at the CIWH site due to not having a sample that was three times background. Although, a 15-mile target distance map was included in the report to indicate the approximate 15-mile target distance (See Appendix F).

Site surface water from the site flows north and west to Stoney Creek. Stoney Creek is adjacent to CIWH. The creek is an intermittent stream possibly fed by ground water from the site. The creek travels in a southeasterly direction for about 2.5 miles and joins the Calumet Sag Channel, which allows water to flow from the Little Calumet River to the Chicago Sanitary and Ship Canal. The 15-mile downstream target distance limit ends in the Calumet Sag Channel (Cal Sag), near the confluence with the ship canal (Black and Veatch 1994).

Surface water and sediment samples were taken from the same location in Stoney Creek to evaluate potential releases to the surface water pathway (See Figure 4). Six samples were taken from Stoney Creek in an attempt to document the surface water pathway. There were no samples that met the observed release criteria for the surface water or sediment samples. In addition, according to the National Wetlands Inventory Maps, the Cal Sag is

not considered a wetland. Stoney Creek is considered a wetland at the confluence of Stoney Creek and the Cal Sag which is approximately 2.5 miles from the site. There are no known surface water intakes and no endangered or threatened species that exist along the 15 mile target distance limit.

5.3 Soil

The CIWH is a four acre property divided into two parcels. There are approximately 10 on-site works. Based on proximity, contamination at the facility is assumed to be either placed or accidentally spilled primarily within the boundaries where the sources currently exist. Currently, the soil exposure pathway is thought to be the pathway of greatest concern.

Twenty-one soil samples were collected at the CIWH site. Chemical analysis of these soil samples indicated VOCs, SVOCs, pesticide/PCBs, and inorganics were detected at concentrations that meet the observed release criteria.

Census data has been compiled and formatted for use in GIS applications by ESRI, a GIS software company. ESRI used demographic data from the "Census 2000 Summary File" represented by Census Block Centroids to generate data that can be overlain onto maps for analysis (ESRI). In order to calculate population in areas surrounding the site, the ESRI census data was overlain onto a map from the region and queried based on distance from the site's boundary. Population data based on GIS analysis for areas

surrounding the site is shown below. A map illustrating the site with 4-mile distance rings can be found as an attachment to this report.

Nearby population within one-mile of the site

On-Site	10
0-1/4	865
¼-1/2	2983
½-1mile	12073

5.4 Air Pathway

No formal air samples were collected during ESI activities. A release of TCL compounds to the air was not documented during the ESI of CIWH. However, the presence of chemicals at or near the ground surface creates the potential for windblown particulates to carry chemicals to neighboring residences. Air emissions from waste oil processing during the years of operation may have resulted in air deposition of contamination in the nearby residential and commercial properties surrounding the site.

Individuals potentially exposed to air-borne contaminants

On-site	10
0-1/4	865
¼-1/2	2983
½-1 miles	12073
1-2 miles	29225

2-3 miles	81511
3-4 miles	107524

6.0 Summary

The ESI was conducted at CIWH in order to determine whether or not to proceed with a HRS Documentation Record and the sites potential placement on the NPL. Previous investigations had documented contamination in association with the facility. The results of these investigations indicated that more specific data needed to be collected regarding sources and migration pathways in order to make a determination as to how to proceed with environmental activities at the facility.

During the week of April 14, 2008 there were 21 soil, six ground water, six sediment and six surface water samples collected at CIWH in an attempt to characterize the CIWH site. There were 12 soil samples and five ground water samples that met the three times background criteria. The surface water and sediment samples did not meet the CERCLA criteria of three times background.

The key sample summary identifies samples that were three times background and that showed attribution to the site. Not all samples listed in the key sample summary were located in the top two feet but were still included since they were above three times background and attributed to the site contamination. Key sample summaries for soil can be found in tables 17-20 and key sample summaries for ground water can be found in tables 21-23.

7.0 References

Illinois EPA, CERCLA Preliminary Assessment Report. Illinois EPA Bureau of Land File. Springfield, IL 1990

Black and Veatch Waste Science, Inc., Screening Site Inspection Report. Illinois EPA Bureau of Land File. Springfield, IL September 22. 1994.

Woodward-Clyde Consultants. Risk Assessment and Determination of Target Cleanup Levels for the Chicago Industrial Waste Haulers Site. Illinois EPA Bureau of Land File. Springfield, IL December 31, 1990.

FIGURES AND TABLES

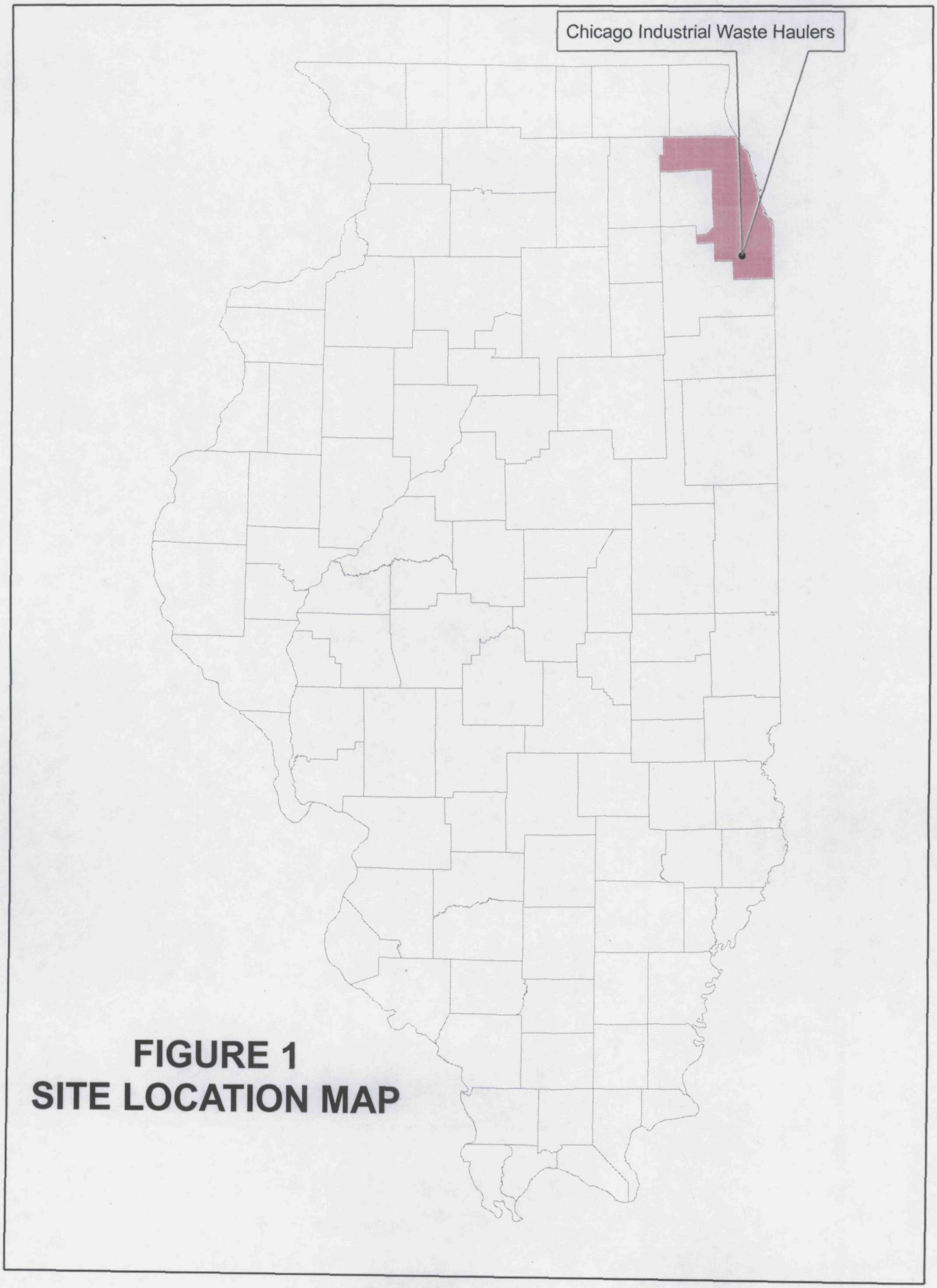


FIGURE 1
SITE LOCATION MAP

Figure 2
Soil Sample Locations
Chicago Industrial Waste Haulers

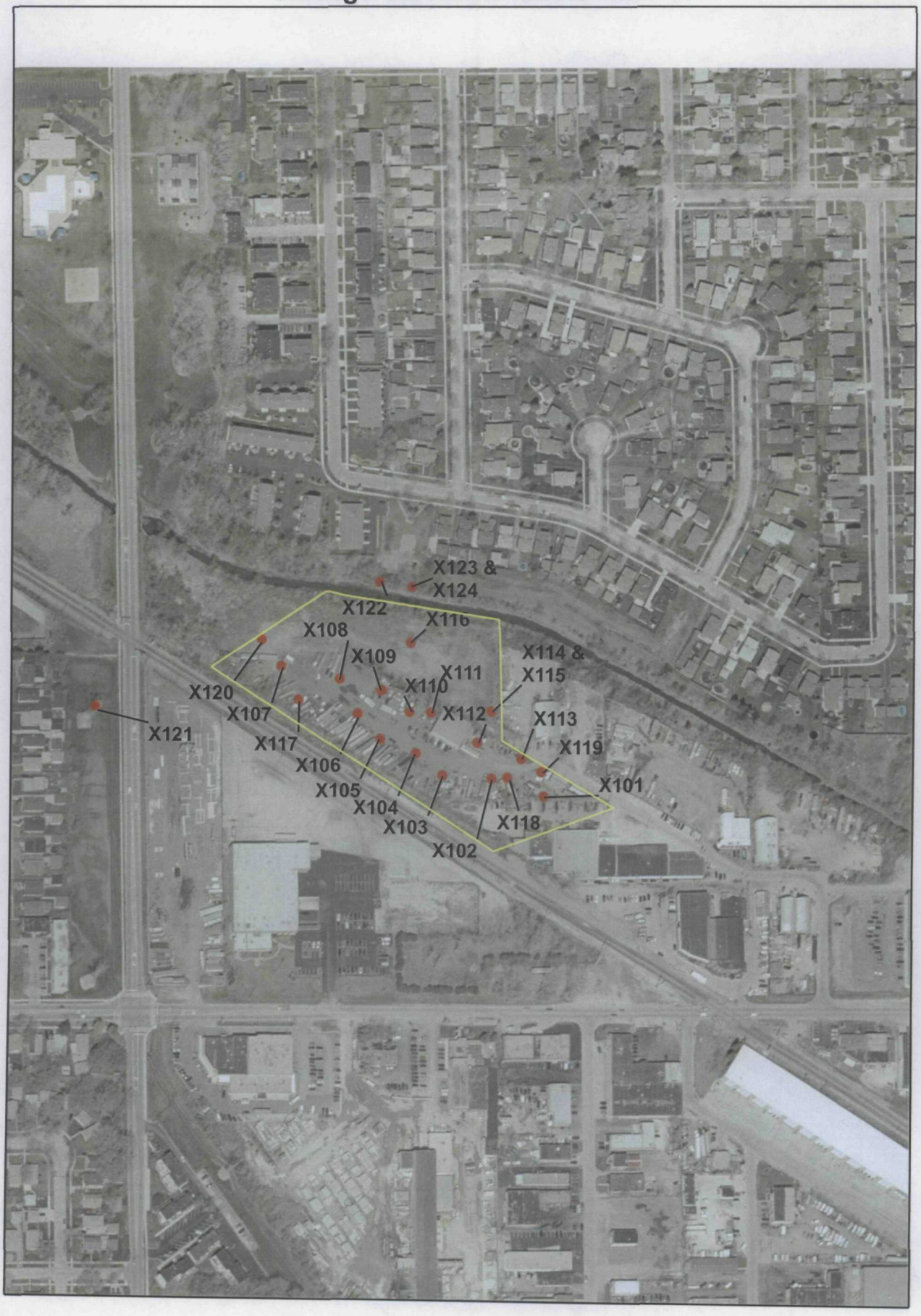


Figure 3
Ground Water Sample Locations
Chicago Industrial Waste Haulers

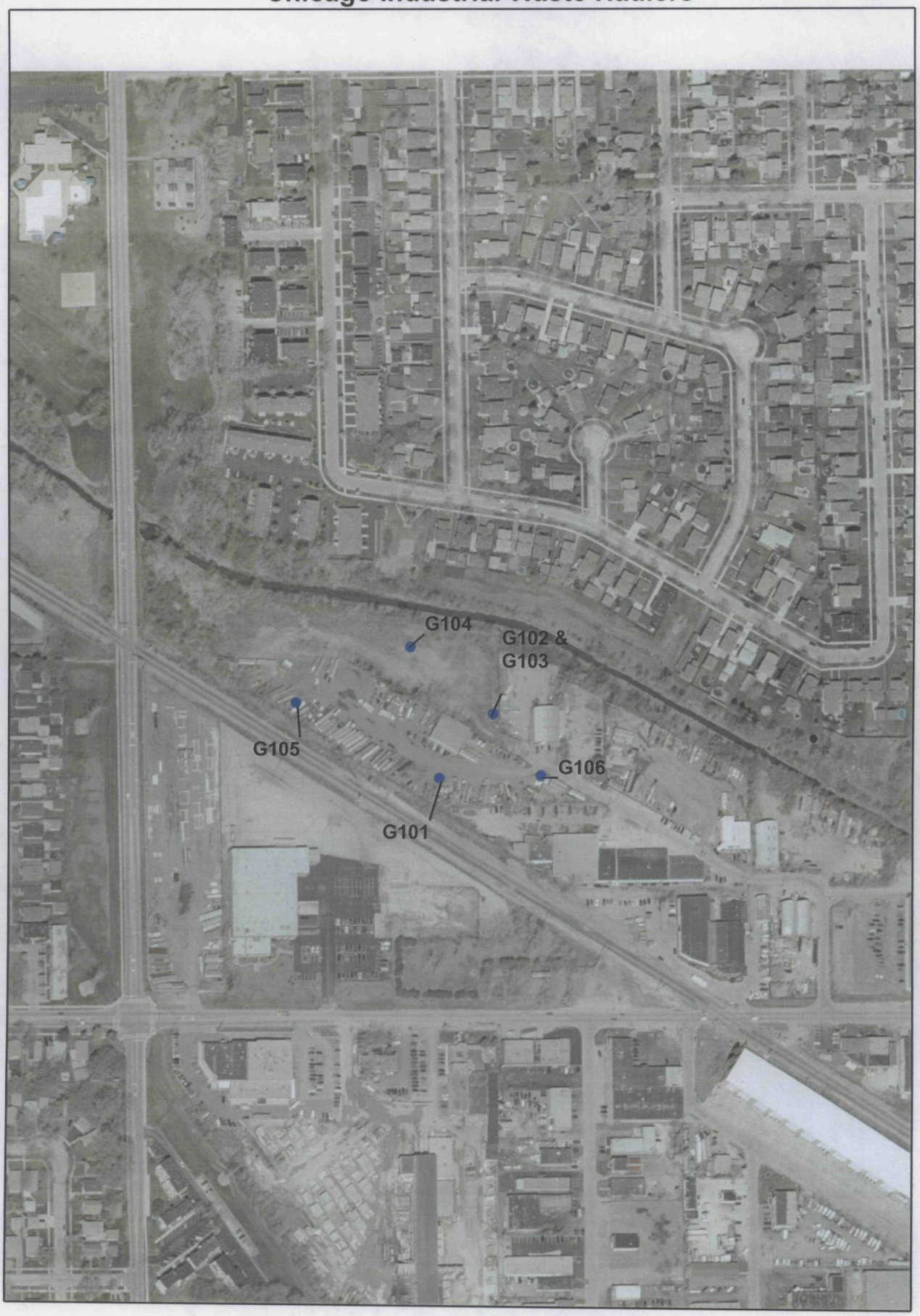
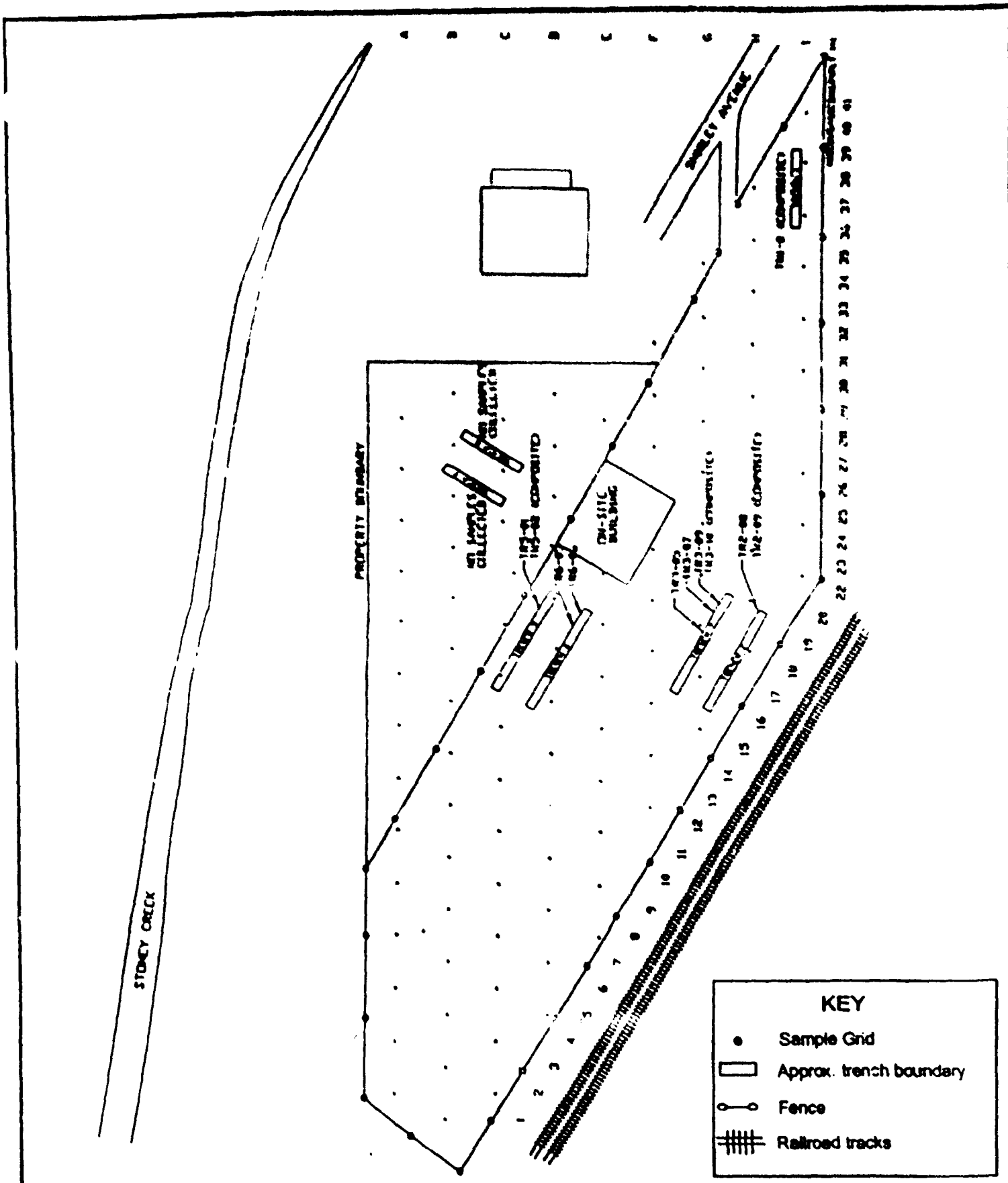


Figure 4
Sediment Sample Locations &
Surface Water Sample Locations
Chicago Industrial Waste Haulers



Source:
Woodward-Clyde Consultants
1992

Scale:
Not To Scale

NORTH

Figure 2-3
Sampling Grid and Trench Locations

Chicago Industrial Waste Haulers
Alsip, Illinois

Coordinates to selected points
UTM NAD83

A	439,488.096 meters East 4,613,538.860 meters North
B	439,485.131 meters East 4,613,535.894 meters North
C	439,493.982 meters East 4,613,490.927 meters North
D	439,493.028 meters East 4,613,489.972 meters North
E	439,506.026 meters East 4,613,494.893 meters North
F	439,504.998 meters East 4,613,494.011 meters North

Table 1
Soil Samples VOC
Chicago Industrial Waste Haulers

Sample Number :	E0001		E0004		E0004DL		E0007		E0012		E0012DL		E0019		E0019DL	
Sampling Location :	X101		X102		X102		X103		X104		X104		X105		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :																
%Moisture :	16		38		38		43		43		43		7		7	
pH:	5.3		5.9		5.9		6.1		5.3		5.3		5.3		5.3	
Dilution Factor :	1.0		2.5		1.0		1.0		3.3		10		1.0		10	
Volatile Compound			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	UJ
Chloromethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	UJ
Vinyl chloride	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	UJ	54	U
Bromomethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	UJ
Chloroethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	UJ
Trichlorofluoromethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,1-Dichloroethene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Acetone	9.4	U	2800	U	110000	U	17	U	5000		13000	U	14	U	110	U
Carbon disulfide	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	UJ
Methyl acetate	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Methylene chloride	4.7	U	1400	U	56000	U	8.6	U	1300	J	6300	U	7.1	U	54	U
trans-1,2-Dichloroethene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Methyl tert-butyl ether	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,1-Dichloroethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
cis-1,2-Dichloroethene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
2-Butanone	9.4	U	2800	U	110000	U	32		4200	U	13000	U	14	U	110	U
Bromochloromethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Chloroform	4.7	U	7300		56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,1,1-Trichloroethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Cyclohexane	4.7	U	36000		38000	J	5.8	J	1600	J	6300	U	7.1	U	54	U
Carbon tetrachloride	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Benzene	4.7	U	200000	J	440000		87		31000		27000		270	J	48	J
1,2-Dichloroethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,4-Dioxane	94	R	28000	R	1100000	R	170	R	42000	R	130000	R	140	R	1100	U
Trichloroethene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Methylcyclohexane	4.7	U	28000		56000	U	8.6	U	3800		3700	J	7.1	U	54	U
1,2-Dichloropropane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Bromodichloromethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
cis-1,3-Dichloropropene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
4-Methyl-2-pentanone	9.4	U	2800	U	110000	U	17	U	4200	U	13000	U	14	U	110	U
Toluene	4.7	U	91000		120000		5.5	J	12000		13000		7.1	U	54	U
trans-1,3-Dichloropropene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,1,2-Trichloroethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Tetrachloroethene	4.7	U	2800		56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
2-Hexanone	9.4	U	2800	U	110000	U	17	U	4200	U	13000	U	14	U	110	U
Dibromochloromethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,2-Dibromoethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Chlorobenzene	4.7	U	2900		56000	U	8.6	U	160000		140000		560		260	
Ethylbenzene	4.7	U	97000		110000		26		15000		13000		7.1	U	54	U
o-Xylene	4.7	U	130000		130000		7.5	J	20000		17000		7.1	U	54	U
m,p-Xylene	4.7	U	250000		330000		27		45000		39000		7.1	U	54	U
Styrene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Bromoform	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
Isopropylbenzene	8.6		15000		56000	U	8.6	U	5600		5100	J	110		58	
1,1,2,2-Tetrachloroethane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,3-Dichlorobenzene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,4-Dichlorobenzene	4.7	U	1400	U	56000	U	8.6	U	2900		6300	U	7.1	U	54	U
1,2-Dichlorobenzene	4.7	U	1400	U	56000	U	8.6	U	5000		4500	J	9.3		54	U
1,2-Dibromo-3-chloropropane	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,2,4-Trichlorobenzene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U
1,2,3-Trichlorobenzene	4.7	U	1400	U	56000	U	8.6	U	2100	U	6300	U	7.1	U	54	U

Table 1
Soil Samples VOC
Chicago Industrial Waste Haulers

Sample Number :	E0022		E0022DL		E0023		E0024		E0025		E0026		E0027		E0027DL	
Sampling Location :	X106		X106		X107		X108		X110		X111		X112		X112	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/15/2008		4/15/2008		4/15/2008		4/15/2008		4/15/2008		4/16/2008		4/15/2008		4/15/2008	
Time Sampled :																
%Moisture :	6		6		11		11		22		16		19		19	
pH:	5.6		5.6		5.3		5.8		5.6		5.9		6.1		6.1	
Dilution Factor :	2		10		1.0		1.0		1.0		1.0		1.0		5	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	11	U	53	U	5.7	U	6.7	U	7.8	UJ	4.8	U	360	U	1800	U
Chloromethane	11	U	53	U	5.7	U	6.7	U	7.8	UJ	4.8	U	360	U	1800	U
Vinyl chloride	11	U	53	U	5.7	U	6.7	UJ	7.8	U	4.8	U	360	U	1800	U
Bromomethane	11	U	53	U	5.7	U	6.7	U	7.8	UJ	4.8	U	360	U	1800	U
Chloroethane	11	U	53	U	5.7	U	6.7	U	7.8	UJ	4.8	U	360	U	1800	U
Trichlorofluoromethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,1-Dichloroethene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Acetone	21	U	110	U	250		13	U	16	U	9.6	U	1400		5500	
Carbon disulfide	11	U	53	U	5.7	U	6.7	U	7.8	UJ	4.8	U	360	U	1800	U
Methyl acetate	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Methylene chloride	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1200	J
trans-1,2-Dichloroethene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Methyl tert-butyl ether	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,1-Dichloroethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
cis-1,2-Dichloroethene	11	U	53	U	5.7	U	6.7	U	7.8	U	2.2	J	360	U	1800	U
2-Butanone	21	U	110	U	66		13	U	16	U	9.6	U	3700		5900	
Bromochloromethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Chloroform	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,1,1-Trichloroethane	11	U	53	U	5.7	U	13		7.8	U	4.8	U	360	U	1800	U
Cyclohexane	46		41	J	5.7	U	6.7	U	72		4.8	U	200	J	1800	U
Carbon tetrachloride	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Benzene	760		790		3.4	J	6.7	U	34		3.6	J	38000		52000	
1,2-Dichloroethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,4-Dioxane	210	U	1100	U	110	R	130	R	160	U	96	R	7200	R	36000	R
Trichloroethene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.3	J	360	U	1800	U
Methylcyclohexane	76		93		5.7	U	6.7	U	300		4.8	U	610		1800	U
1,2-Dichloropropane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Bromodichloromethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
cis-1,3-Dichloropropene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
4-Methyl-2-pentanone	21	U	110	U	11	U	13	U	16	U	9.6	U	720	U	3600	U
Toluene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	4600		5900	
trans-1,3-Dichloropropene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,1,2-Trichloroethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Tetrachloroethene	11	U	53	U	5.7	U	55		7.8	U	4.8	U	360	U	1800	U
2-Hexanone	21	U	110	U	11	U	13	U	16	U	9.6	U	720	U	3600	U
Dibromochloromethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,2-Dibromoethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Chlorobenzene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Ethylbenzene	6.9	J	53	U	5.7	U	2.8	J	7.8	U	4.8	U	970		1300	J
o-Xylene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	2400		3200	
m,p-Xylene	35		46	J	5.7	U	6.7	U	200		4.8	U	4400		5800	
Styrene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Bromoform	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
Isopropylbenzene	49		61		5.7	U	6.7	U	7.8	U	4.1	J	260	J	1800	U
1,1,2,2-Tetrachloroethane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,3-Dichlorobenzene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,4-Dichlorobenzene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,2-Dichlorobenzene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,2-Dibromo-3-chloropropane	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,2,4-Trichlorobenzene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U
1,2,3-Trichlorobenzene	11	U	53	U	5.7	U	6.7	U	7.8	U	4.8	U	360	U	1800	U

Table 1
Soil Samples VOC
Chicago Industrial Waste Haulers

Sample Number :	E0029		E0030		E0035		E0038		E0042		E0042DL		E0043		E0046	
Sampling Location :	X114		X115		X116		X117		X118		X118		X119		X121	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/16/2008		4/16/2008		4/16/2008		4/17/2008		4/17/2008				4/17/2008		4/17/2008	
Time Sampled :																
%Moisture :	13		14		26		20		7		7		27		15	
pH:	6.8		6.1		6.2		5.9		5.3		5.3		6.1		5.6	
Dilution Factor :	3		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	18	U	4.8	U	7.2	UJ	5.8	U	15000	R	30000	R	15	UJ	12	UJ
Chloromethane	18	U	4.8	U	7.2	UJ	5.8	U	15000	R	30000	R	15	UJ	12	UJ
Vinyl chloride	18	U	4.8	UJ	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Bromomethane	18	U	4.8	U	7.2	UJ	5.8	U	15000	R	30000	R	15	UJ	12	UJ
Chloroethane	18	U	4.8	U	7.2	UJ	5.8	U	15000	R	30000	R	15	UJ	12	UJ
Trichlorofluoromethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,1-Dichloroethene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,1,2-Trichloro-1,2,2-trifluoroethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Acetone	36	U	9.7	U	31		12	U	30000	R	61000	R	71		24	U
Carbon disulfide	18	U	4.8	U	7.2	UJ	5.8	U	15000	R	30000	R	15	UJ	12	UJ
Methyl acetate	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Methylene chloride	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	65		52	
trans-1,2-Dichloroethene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Methyl tert-butyl ether	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,1-Dichloroethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
cis-1,2-Dichloroethene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
2-Butanone	36	U	9.7	U	14	U	12	U	30000	R	61000	R	380		24	U
Bromochloromethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Chloroform	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,1,1-Trichloroethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Cyclohexane	18	U	4.8	U	7.2	U	5.8	U	9900	R	30000	R	15	U	12	U
Carbon tetrachloride	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Benzene	18	U	4.8	U	7.2	U	5.8	U	620000	R	300000	R	250		430	
1,2-Dichloroethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,4-Dioxane	360	R	97	R	140	U	120	R	300000	R	610000	R	300	R	240	R
Trichloroethene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Methylcyclohexane	18	U	4.8	U	7.2	U	5.8	U	18000	R	30000	R	15	U	12	U
1,2-Dichloropropane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Bromodichloromethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
cis-1,3-Dichloropropene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
4-Methyl-2-pentanone	36	U	9.7	U	14	U	1.9	J	30000	R	61000	R	30	U	24	U
Toluene	18	U	8.3		7.2	U	5.8	U	84000	R	48000	R	35		50	
trans-1,3-Dichloropropene	18	U	4.8	U	7.2	U	1.9	J	15000	R	30000	R	15	U	12	U
1,1,2-Trichloroethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Tetrachloroethene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
2-Hexanone	36	U	9.7	U	14	U	12	U	30000	R	61000	R	30	U	24	U
Dibromochloromethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,2-Dibromoethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Chlorobenzene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Ethylbenzene	18	U	4.4	J	7.2	U	5.8	U	28000	R	14000	R	12	J	7.7	J
o-Xylene	90		150		7.2	U	5.8	U	30000	R	14000	R	36		6.2	J
m,p-Xylene	21		120		7.2	U	5.8	U	83000	R	39000	R	38		15	
Styrene	18	U	12		7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Bromoform	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
Isopropylbenzene	23		50		7.2	U	5.8	U	15000	R	30000	R	28		12	U
1,1,2,2-Tetrachloroethane	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,3-Dichlorobenzene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,4-Dichlorobenzene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,2-Dichlorobenzene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,2-Dibromo-3-chloropropane	18	U	4.8	U	7.2	U	5.8	R	15000	R	30000	R	15	R	12	R
1,2,4-Trichlorobenzene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U
1,2,3-Trichlorobenzene	18	U	4.8	U	7.2	U	5.8	U	15000	R	30000	R	15	U	12	U

Table 1
Soil Samples VOC
Chicago Industrial Waste Haulers

Sample Number :	E00M0		E00M1		E00M1RE		E00M2		E00M2RE	
Sampling Location :	X122		X123		X123		X124		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	6/25/2008		6/25/2008				6/25/2008			
Time Sampled :										
%Moisture :	16		17		17		17		17	
pH:										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Chloromethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Vinyl chloride	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Bromomethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Chloroethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Trichlorofluoromethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
1,1-Dichloroethene	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Acetone	12	U	10	U	11	U	11	U	11	U
Carbon disulfide	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Methyl acetate	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Methylene chloride	6.2	U	5.2	U	3.8	J	5.7	U	5.7	U
trans-1,2-Dichloroethene	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Methyl tert-butyl ether	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
1,1-Dichloroethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
cis-1,2-Dichloroethene	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
2-Butanone	12	U	10	U	11	U	11	U	11	U
Bromochloromethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
Chloroform	3.3	J	2.8	J	2.6	J	2.8	J	5.7	U
1,1,1-Trichloroethane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Cyclohexane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Carbon tetrachloride	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Benzene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
1,2-Dichloroethane	6.2	U	5.2	U	5.4	U	5.7	U	5.7	U
1,4-Dioxane	120	U	100	U	110	U	110	U	110	U
Trichloroethene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Methylcyclohexane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
1,2-Dichloropropane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Bromodichloromethane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
cis-1,3-Dichloropropene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
4-Methyl-2-pentanone	12	U	10	U	11	R	11	U	11	U
Toluene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
trans-1,3-Dichloropropene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
1,1,2-Trichloroethane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Tetrachloroethene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
2-Hexanone	12	U	10	U	11	R	11	U	11	U
Dibromochloromethane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
1,2-Dibromoethane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Chlorobenzene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Ethylbenzene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
o-Xylene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
m,p-Xylene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Styrene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
Bromoform	6.2	R	5.2	R	5.4	R	5.7	R	5.7	R
Isopropylbenzene	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
1,1,2,2-Tetrachloroethane	6.2	U	5.2	U	5.4	R	5.7	U	5.7	U
1,3-Dichlorobenzene	6.2	R	5.2	R	5.4	R	5.7	R	5.7	R
1,4-Dichlorobenzene	6.2	R	5.2	R	5.4	R	5.7	R	5.7	R
1,2-Dichlorobenzene	6.2	R	5.2	R	5.4	R	5.7	R	5.7	R
1,2-Dibromo-3-chloropropane	6.2	R	5.2	R	5.4	R	5.7	R	5.7	R
1,2,4-Trichlorobenzene	6.2	R	5.2	R	5.4	R	5.7	R	5.7	R
1,2,3-Trichlorobenzene	6.2	R	5.2	R	5.4	R	5.7	R	5.7	R

Table 2
Soil Sample SVOC
Chicago Industrial Waste Haulers

Sample Number :	E0001		E0004		E0004DL		E0007		E0012		E0012DL		E0012RE		E0019	
Sampling Location :	X101		X102		X102		X103		X104		X104		X104		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/14/2008		4/14/2008				4/14/2008		4/14/2008						4/14/2008	
Time Sampled :																
%Moisture :	16		38		38		43		43		43		43		7	
pH :	5.3		5.9		5.9		6.1		5.3		5.3		5.3		5.3	
Dilution Factor :	1.0		1.0		8.0		1.0		1.0		10.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	200	U	11000		12000		300	U	5400		3000	U	5800		180	U
Phenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Bis(2-chloroethyl)ether	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2-Chlorophenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2-Methylphenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2,2'-Oxybis(1-chloropropane)	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Acetophenone	94	J	7400		7400		92	J	9900	J	8200		11000		180	U
4-Methylphenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
N-Nitroso-di-n-propylamine	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Hexachloroethane	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Nitrobenzene	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Isophorone	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2-Nitrophenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2,4-Dimethylphenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Bis(2-chloroethoxy)methane	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2,4-Dichlorophenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Naphthalene	200	U	18000		33000		300	U	18000		17000		20000		180	U
4-Chloroaniline	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Hexachlorobutadiene	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Caprolactam	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
4-Chloro-3-methylphenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2-Methylnaphthalene	200	U	10000		11000		300	U	12000		20000		15000		180	U
Hexachlorocyclopentadiene	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2,4,6-Trichlorophenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2,4,5-Trichlorophenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
1,1'-Biphenyl	200	U	1900		1600	J	300	U	4600		2500	J	4300		180	U
2-Chloronaphthalene	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2-Nitroaniline	390	U	530	U	4300	U	570	U	580	U	5800	U	580	U	350	U
Dimethylphthalate	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
2,6-Dinitrotoluene	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Acenaphthylene	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
3-Nitroaniline	390	U	530	U	4300	U	570	U	580	U	5800	U	580	U	350	U
Acenaphthene	97	J	3800		4100		300	U	2900		2500	J	3000		180	U
2,4-Dinitrophenol	390	U	530	U	4300	U	570	U	580	U	5800	U	580	U	350	U
4-Nitrophenol	390	U	530	U	4300	U	570	U	580	U	5800	U	580	U	350	U
Dibenzofuran	67	J	4200		3700		300	U	3800		2700	J	3400		180	U
2,4-Dinitrotoluene	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Diethylphthalate	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Fluorene	160	J	11000		15000		110	J	2900		5000		3100		180	U
4-Chlorophenyl-phenylether	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
4-Nitroaniline	390	U	530	U	4300	U	570	U	580	U	5800	U	580	U	350	U
4,6-Dinitro-2-methylphenol	390	U	530	U	4300	U	570	U	580	R	5800	U	580	U	350	U
N-Nitrosodiphenylamine	200	U	280	U	2200	U	300	U	300	R	3000	U	300	U	180	U
1,2,4,5-Tetrachlorobenzene	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
4-Bromophenyl-phenylether	200	U	280	U	2200	U	300	U	300	R	3000	U	300	U	180	U
Hexachlorobenzene	200	U	280	U	2200	U	300	U	300	R	3000	U	300	U	180	U
Atrazine	200	U	280	U	2200	U	300	U	300	R	3000	U	300	U	180	U
Pentachlorophenol	390	R	530	R	4300	R	570	R	580	R	5800	U	580	R	350	R
Phenanthrene	200	U	11000		18000		300	U	19000	J	13000	J	19000	J	87	J
Anthracene	83	J	2100		1600	J	300	U	5300	J	2500	J	4800	J	180	U
Carbazole	200	U	1800		3500		300	U	300	R	3000	U	300	U	180	U
Di-n-butylphthalate	200	U	280	U	2200	U	300	U	300	R	3000	U	300	U	180	U
Fluoranthene	160	J	7800		11000	J	130	J	6500	J	6000	J	6900		340	
Pyrene	210		6800		8900	J	120	J	11000	J	7800	J	12000		250	
Butylbenzylphthalate	200	U	280	U	2200	U	300	U	300	R	3000	U	300	U	180	U
3,3'-Dichlorobenzidine	200	U	280	U	2200	U	300	U	300	R	3000	U	300	U	180	U
Benzo(a)anthracene	98	J	3100		2900	J	90	J	3000	J	2200	J	2900		150	J
Chrysene	75	J	2900		3000	J	76	J	3300	J	2500	J	3200		150	J
Bis(2-ethylhexyl)phthalate	200	U	280	U	2200	U	300	U	300	R	3000	U	300	U	180	U
Di-n-octylphthalate	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U
Benzo(b)fluoranthene	140	J	1700		1900	J	150	J	750		3000	U	600		230	
Benzo(k)fluoranthene	130	J	1200		1400	J	100	J	650		3000	U	760		130	J
Benzo(a)pyrene	110	J	630		800	J	120	J	1600		1500	J	1600		180	J
Indeno(1,2,3-cd)pyrene	200	U	1600		1300	J	120	J	1000		3000	U	940		140	J
Dibenzo(a,h)anthracene	200	U	750		830	J	68	J	300	U	3000	U	300	U	66	J
Benzo(g,h,i)perylene	200	U	2200		1800	J	160	J	2000		3000	U	1900		170	J
2,3,4,6-Tetrachlorophenol	200	U	280	U	2200	U	300	U	300	U	3000	U	300	U	180	U

Table 2
Soil Sample SVOC
Chicago Industrial Waste Haulers

Sample Number :	E0022		E0023		E0023DL		E0024		E0025		E0026		E0026RE		E0027	
Sampling Location :	X106		X107		X107		X108		X110		X111		X111		X112	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/15/2008		4/15/2008				4/15/2008		4/15/2008		4/16/2008				4/15/2008	
Time Sampled :																
%Moisture :	6		11		11		11		22		16		16		19	
pH :	5.6		5.3		5.3		5.8		5.6		5.9		5.9		6.1	
Dilution Factor :	1.0		1.0		4.0		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	180	U	190	U	760	R	190	U	220	U	200	U	200	U	850	
Phenol	180	U	190	U	760	R	190	U	220	U	200	U	200	U	450	
Bis(2-chloroethyl)ether	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
2-Chlorophenol	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
2-Methylphenol	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
2,2'-Oxybis(1-chloropropane)	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
Acetophenone	180	U	190	U	760	R	190	U	120	J	140	J	150	J	1800	
4-Methylphenol	180	U	190	U	760	R	190	U	220	U	200	U	200	U	310	
N-Nitroso-di-n-propylamine	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
Hexachloroethane	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
Nitrobenzene	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
Isophorone	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
2-Nitrophenol	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
2,4-Dimethylphenol	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
Bis(2-chloroethoxy)methane	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
2,4-Dichlorophenol	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
Naphthalene	180	U	190	U	760	R	190	U	420		200	U	200	U	1200	
4-Chloroaniline	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
Hexachlorobutadiene	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
Caprolactam	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
4-Chloro-3-methylphenol	180	U	190	U	760	R	190	U	220	U	200	U	200	U	210	U
2-Methylnaphthalene	180	U	190	U	760	R	190	U	730		200	U	200	U	1200	
Hexachlorocyclopentadiene	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
2,4,6-Trichlorophenol	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
2,4,5-Trichlorophenol	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
1,1'-Biphenyl	180	U	190	U	760	U	190	U	220	U	200	U	200	U	110	J
2-Chloronaphthalene	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
2-Nitroaniline	350	U	370	U	1500	U	370	U	420	U	390	U	390	U	410	U
Dimethylphthalate	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
2,6-Dinitrotoluene	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Acenaphthylene	180	U	51	J	760	U	190	U	220	U	200	U	200	U	210	U
3-Nitroaniline	350	U	370	U	1500	U	370	U	420	U	390	U	390	U	410	U
Acenaphthene	180	U	170	J	760	U	190	U	220	U	200	U	200	U	210	U
2,4-Dinitrophenol	350	U	370	U	1500	U	370	U	420	U	390	U	390	U	410	U
4-Nitrophenol	350	U	370	U	1500	U	370	U	420	U	390	U	390	U	410	U
Dibenzofuran	180	U	60	J	760	U	190	U	220	U	200	U	200	U	100	J
2,4-Dinitrotoluene	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Diethylphthalate	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Fluorene	38	J	210		760	U	190	U	220	U	200	U	200	U	800	
4-Chlorophenyl-phenylether	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
4-Nitroaniline	350	U	370	U	1500	U	370	U	420	U	390	U	390	U	410	U
4,6-Dinitro-2-methylphenol	350	U	370	U	1500	U	370	U	420	U	390	U	390	U	410	U
N-Nitrosodiphenylamine	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
1,2,4,5-Tetrachlorobenzene	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
4-Bromophenyl-phenylether	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Hexachlorobenzene	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Atrazine	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Pentachlorophenol	350	R	370	R	1500	U	370	R	420	U	390	U	390	U	410	U
Phenanthrene	150	J	2200		2700		54	J	260		520		500		360	J
Anthracene	82	J	610		730	J	190	U	220	U	120	J	130	J	100	J
Carbazole	36	J	230		760	U	190	U	220	U	81	J	86	J	280	J
Di-n-butylphthalate	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Fluoranthene	370		4100		3300		150	J	220	U	1500		1600		170	J
Pyrene	240		2600		3900		110	J	160	J	820		860	J	250	J
Butylbenzylphthalate	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
3,3'-Dichlorobenzidine	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Benzo(a)anthracene	150	J	1800		1900		77	J	220	U	520		530	J	210	U
Chrysene	160	J	1500		2200		88	J	220	U	650		640	J	180	J
Bis(2-ethylhexyl)phthalate	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Di-n-octylphthalate	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U
Benzo(b)fluoranthene	210		1700		1900		120	J	220	U	720	J	610	J	210	U
Benzo(k)fluoranthene	150	J	1200		1800		92	J	220	U	430	J	590	J	210	U
Benzo(a)pyrene	190		1900		2300		100	J	220	U	670	J	690	J	100	J
Indeno(1,2,3-cd)pyrene	160	J	1300		1500		120	J	220	U	510	J	490	J	210	U
Dibenzo(a,h)anthracene	77	J	590		570	J	51	J	220	U	210	J	220	J	210	U
Benzo(g,h,i)perylene	200		1400		1500		140	J	220	U	550	J	530	J	210	U
2,3,4,6-Tetrachlorophenol	180	U	190	U	760	U	190	U	220	U	200	U	200	U	210	U

Table 2
Soil Sample SVOC
Chicago Industrial Waste Haulers

Sample Number :	E0027RE		E0029		E0029RE		E0030		E0030DL		E0030RE		E0035		E0035RE	
Sampling Location :	X112		X114		X114		X115		X115		X115		X116		X116	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			4/16/2008				4/16/2008						4/16/2008			
Time Sampled :																
%Moisture :	19		13		13		14		14		14		26		26	
pH :	6.1		6.8		6.8		6.1		6.1		6.1		6.2		6.2	
Dilution Factor :	1.0		1.0		1.0		1.0		5.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	800		190	U	190	U	200	U	990	U	200	U	1500	J	2100	J
Phenol	430		190	U	190	U	200	U	990	U	200	U	230	U	230	U
Bis(2-chloroethyl)ether	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2-Chlorophenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2-Methylphenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2,2'-Oxybis(1-chloropropane)	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Acetophenone	1600		190	U	190	U	200	U	990	U	200	U	230	U	230	U
4-Methylphenol	280		190	U	190	U	180	J	990	U	210		230	U	230	U
N-Nitroso-di-n-propylamine	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Hexachloroethane	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Nitrobenzene	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Isophorone	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2-Nitrophenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2,4-Dimethylphenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Bis(2-chloroethoxy)methane	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2,4-Dichlorophenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Naphthalene	1200		160	J	160	J	360		990	U	370		230	U	230	U
4-Chloroaniline	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Hexachlorobutadiene	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Caprolactam	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
4-Chloro-3-methylphenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2-Methylnaphthalene	1100		190	U	190	U	130	J	990	U	140	J	230	U	230	U
Hexachlorocyclopentadiene	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2,4,6-Trichlorophenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2,4,5-Trichlorophenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
1,1'-Biphenyl	140	J	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2-Chloronaphthalene	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2-Nitroaniline	410	U	380	U	380	U	380	U	1900	U	380	U	440	U	440	U
Dimethylphthalate	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
2,6-Dinitrotoluene	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Acenaphthylene	210	U	190	U	190	U	83	J	990	U	100	J	230	U	230	U
3-Nitroaniline	410	U	380	U	380	U	380	U	1900	U	380	U	440	U	440	U
Acenaphthene	210	U	110	J	110	J	390		990	U	380		230	U	230	U
2,4-Dinitrophenol	410	U	380	U	380	U	380	U	1900	U	380	U	440	U	440	U
4-Nitrophenol	410	U	380	U	380	U	380	U	1900	U	380	U	440	U	440	U
Dibenzofuran	100	J	190	U	190	U	210		990	U	210		230	U	230	U
2,4-Dinitrotoluene	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Diethylphthalate	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Fluorene	770	J	140	J	130	J	450		990	U	460		230	U	230	U
4-Chlorophenyl-phenylether	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
4-Nitroaniline	410	U	380	U	380	U	380	U	1900	U	380	U	440	U	440	U
4,6-Dinitro-2-methylphenol	410	U	380	UJ	380	U	380	U	1900	U	380	U	440	U	440	U
N-Nitrosodiphenylamine	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
1,2,4,5-Tetrachlorobenzene	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
4-Bromophenyl-phenylether	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Hexachlorobenzene	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Atrazine	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Pentachlorophenol	410	U	380	U	380	U	380	U	1900	U	380	U	440	U	440	U
Phenanthrene	360	J	1200		1100		4200		3500	J	4300	J	250	J	250	J
Anthracene	100	J	240		270		850		740	J	860	J	230	U	230	U
Carbazole	270	J	150	J	160	J	500		430	J	530	J	230	U	230	U
Di-n-butylphthalate	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Fluoranthene	170	J	2100		2300		8000		7300	J	8200	J	650	J	630	J
Pyrene	280	J	1000	J	1000	J	4000	J	3600	J	3900	J	230	UJ	230	UJ
Butylbenzylphthalate	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
3,3'-Dichlorobenzidine	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Benzo(a)anthracene	210	U	570	J	570	J	2300	J	2000	J	2300	J	230	UJ	230	UJ
Chrysene	180	J	600	J	580	J	2400	J	2200	J	2400	J	230	UJ	230	UJ
Bis(2-ethylhexyl)phthalate	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Di-n-octylphthalate	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U
Benzo(b)fluoranthene	210	U	450	J	430	J	3000	J	2100	J	2800	J	180	J	170	J
Benzo(k)fluoranthene	210	U	480	J	430	J	1300	J	1300	J	1200	J	190	J	220	J
Benzo(a)pyrene	210	U	530	J	530	J	2200	J	2000	J	2200	J	210	J	220	J
Indeno(1,2,3-cd)pyrene	210	U	310	J	330	J	1500	J	1300	J	1400	J	140	J	150	J
Dibenzo(a,h)anthracene	210	U	160	J	140	J	660	J	620	J	640	J	230	U	230	U
Benzo(g,h,i)perylene	210	U	330	J	330	J	1500	J	1300	J	1400	J	160	J	160	J
2,3,4,6-Tetrachlorophenol	210	U	190	U	190	U	200	U	990	U	200	U	230	U	230	U

Table 2
Soil Sample SVOC
Chicago Industrial Waste Haulers

Sample Number :	E0038		E0042		E0042DL		E0043		E0043DL		E0046		E00M0		E00M1	
Sampling Location :	X117		X118		X118		X119		X119		X121		X122		X123	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/17/2008		4/17/2008				4/17/2008				4/17/2008		6/25/2008		6/25/2008	
Time Sampled :																
%Moisture :	20		7		7		27		27		15		16		17	
pH :	5.9		5.3		5.3		6.1		6.1		5.6		7.4		7.2	
Dilution Factor :	1.0		1.0		10.0		1.0		10.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	210	U	450		1800	U	4100		1600	J	200	U	200	U	200	U
Phenol	210	U	1000		800	J	230	U	2300	U	200	U	200	UJ	200	UJ
Bis(2-chloroethyl)ether	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2-Chlorophenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2-Methylphenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2,2'-Oxybis(1-chloropropane	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Acetophenone	210	U	460		1800	U	10000		8700	J	200	U	200	U	200	U
4-Methylphenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
N-Nitroso-di-n-propylamine	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Hexachloroethane	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Nitrobenzene	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Isophorone	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2-Nitrophenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2,4-Dimethylphenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Bis(2-chloroethoxy)methane	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2,4-Dichlorophenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Naphthalene	210	U	7700		6300		3200		3600		200	U	200	U	200	U
4-Chloroaniline	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Hexachlorobutadiene	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Caprolactam	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
4-Chloro-3-methylphenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2-Methylnaphthalene	210	U	3900		2300		3700		3000		200	U	200	U	200	U
Hexachlorocyclopentadiene	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2,4,6-Trichlorophenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2,4,5-Trichlorophenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
1,1'-Biphenyl	210	U	520		1800	U	570		950	J	200	U	200	U	200	U
2-Chloronaphthalene	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2-Nitroaniline	410	U	350	U	3500	U	450	U	4500	U	390	U	390	U	400	U
Dimethylphthalate	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
2,6-Dinitrotoluene	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Acenaphthylene	210	U	600		1800	U	1800		1800	J	330		200	U	23	J
3-Nitroaniline	410	U	350	U	3500	U	450	U	4500	U	390	U	390	U	400	U
Acenaphthene	210	U	2100		1800		1700		2000	J	200	U	200	U	200	U
2,4-Dinitrophenol	410	U	350	U	3500	U	450	U	4500	U	390	U	390	U	400	U
4-Nitrophenol	410	U	350	U	3500	U	450	U	4500	U	390	U	390	U	400	U
Dibenzofuran	210	U	2000		1500	J	2300	J	2400		200	U	200	U	200	U
2,4-Dinitrotoluene	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Diethylphthalate	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Fluorene	210	U	5200		3200		8600	J	7300		160	J	200	U	200	U
4-Chlorophenyl-phenylether	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
4-Nitroaniline	410	U	350	U	3500	U	450	U	4500	U	390	U	390	U	400	U
4,6-Dinitro-2-methylphenol	410	UJ	350	UJ	3500	U	450	U	4500	U	390	UJ	390	U	400	U
N-Nitrosodiphenylamine	210	U	180	U	1800	U		J	2300	U	200	U	200	U	200	U
1,2,4,5-Tetrachlorobenzene	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
4-Bromophenyl-phenylether	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Hexachlorobenzene	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Atrazine	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Pentachlorophenol	410	U	350	U	3500	R	450	U	4500	R	390	U	390	UJ	400	UJ
Phenanthrene	92	J	9100		7800		6700	J	8100	J	1200		140	J	230	
Anthracene	210	U	2800		2700		21000	J	46000	J	320		36	J	56	J
Carbazole	210	U	1200		870	J	9300	J	9800		200	U	200	U	200	U
Di-n-butylphthalate	210	U	180	U	1800	U	230	U	2300	U	200	U	22	J	200	U
Fluoranthene	120	J	6600		3800		15000	J	16000	J	750		280		350	
Pyrene	130	J	2300		2400		12000	J	15000	J	750		320	J	420	J
Butylbenzylphthalate	210	U	180	U	1800	U	730	J	2300	U	200	U	200	U	22	J
3,3'-Dichlorobenzidine	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Benzo(a)anthracene	210	U	930		960	J	4400	J	5700	J	250		190	J	230	
Chrysene	210	U	910		1100	J	5900	J	8100	J	230		190	J	240	J
Bis(2-ethylhexyl)phthalate	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Di-n-octylphthalate	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U
Benzo(b)fluoranthene	210	U	450		1800	U	2700	J	4200		170	J	160	J	240	J
Benzo(k)fluoranthene	210	U	580		760	J	3400	J	3900		190	J	73	J	110	J
Benzo(a)pyrene	120	J	640		1100	J	3300	J	5600		270		150	J	180	J
Indeno(1,2,3-cd)pyrene	210	U	340		790	J	1800	J	2700		170	J	86	J	97	J
Dibenzo(a,h)anthracene	210	U	120	J	1800	U	230	U	1000	J	200	U	28	J	34	J
Benzo(g,h,i)perylene	86	J	360		990	J	2300	J	3400		230		100	J	110	J
2,3,4,6-Tetrachlorophenol	210	U	180	U	1800	U	230	U	2300	U	200	U	200	U	200	U

Table 2
Soil Sample SVOC
Chicago Industrial Waste Haulers

Sample Number :	E00M2
Sampling Location :	X124
Matrix :	Soil
Units :	ug/Kg
Date Sampled :	6/25/2008
Time Sampled :	
%Moisture :	17
pH :	7.5
Dilution Factor :	1.0

Semivolatile Compound	Result	Flag
Benzaldehyde	200	U
Phenol	200	UJ
Bis(2-chloroethyl)ether	200	U
2-Chlorophenol	200	U
2-Methylphenol	200	U
2,2'-Oxybis(1-chloropropane	200	U
Acetophenone	200	U
4-Methylphenol	200	U
N-Nitroso-di-n-propylamine	200	U
Hexachloroethane	200	U
Nitrobenzene	200	U
Isophorone	200	U
2-Nitrophenol	200	U
2,4-Dimethylphenol	200	U
Bis(2-chloroethoxy)methane	200	U
2,4-Dichlorophenol	200	U
Naphthalene	33	J
4-Chloroaniline	200	U
Hexachlorobutadiene	200	U
Caprolactam	200	U
4-Chloro-3-methylphenol	200	U
2-Methylnaphthalene	56	J
Hexachlorocyclopentadiene	200	U
2,4,6-Trichlorophenol	200	U
2,4,5-Trichlorophenol	200	U
1,1'-Biphenyl	23	J
2-Chloronaphthalene	200	U
2-Nitroaniline	390	U
Dimethylphthalate	200	U
2,6-Dinitrotoluene	200	U
Acenaphthylene	60	J
3-Nitroaniline	390	U
Acenaphthene	82	J
2,4-Dinitrophenol	390	U
4-Nitrophenol	390	U
Dibenzofuran	97	J
2,4-Dinitrotoluene	200	U
Diethylphthalate	200	U
Fluorene	120	J
4-Chlorophenyl-phenylether	200	U
4-Nitroaniline	390	U
4,6-Dinitro-2-methylphenol	390	U
N-Nitrosodiphenylamine	200	U
1,2,4,5-Tetrachlorobenzene	200	U
4-Bromophenyl-phenylether	200	U
Hexachlorobenzene	200	U
Atrazine	200	U
Pentachlorophenol	390	UJ
Phenanthrene	1700	
Anthracene	290	
Carbazole	80	J
Di-n-butylphthalate	200	U
Fluoranthene	1400	
Pyrene	1700	J
Butylbenzylphthalate	200	U
3,3'-Dichlorobenzidine	200	U
Benzo(a)anthracene	670	
Chrysene	870	J
Bis(2-ethylhexyl)phthalate	200	U
Di-n-octylphthalate	200	U
Benzo(b)fluoranthene	720	J
Benzo(k)fluoranthene	200	
Benzo(a)pyrene	490	
Indeno(1,2,3-cd)pyrene	260	
Dibenzo(a,h)anthracene	100	J
Benzo(g,h,i)perylene	290	
2,3,4,6-Tetrachlorophenol	200	U

Table 3
Soil Pesticide/PCB's
Chicago Industrial Waste Haulers

Sample Number :	E0001		E0004		E0007		E0012		E0019		E0022		E0023		E0023DL	
Sampling Location :	X101		X102		X103		X104		X105		X106		X107		X107	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/15/2008		4/15/2008			
Time Sampled :																
%Moisture :	16		38		43		43		7		6		11		11	
pH :	5.3		5.9		6.1		5.3		5.3		5.6		5.3		5.3	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0		4.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
beta-BHC	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
delta-BHC	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
gamma-BHC (Lindane)	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
Heptachlor	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
Aldrin	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
Heptachlor epoxide	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
Endosulfan I	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
Dieldrin	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
4,4'-DDE	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
Endrin	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
Endosulfan II	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
4,4'-DDD	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
Endosulfan sulfate	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
4,4'-DDT	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
Methoxychlor	20	U	28	U	30	U	30	U	18	U	18	U	19	U		
Endrin ketone	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
Endrin aldehyde	3.9	U	5.3	U	5.8	U	5.8	U	3.6	U	3.5	U	3.7	U		
alpha-Chlordane	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
gamma-Chlordane	2.0	U	2.8	U	3.0	U	3.0	U	1.8	U	1.8	U	1.9	U		
Toxaphene	200	U	280	U	300	U	300	U	180	U	180	U	190	U		
Aroclor-1016	39	U	53	U	57	U	58	U	35	U	35	U	37	UJ	150	UJ
Aroclor-1221	39	U	53	U	57	U	58	U	35	U	35	U	37	UJ	150	UJ
Aroclor-1232	39	U	53	U	57	U	58	U	35	U	35	U	37	UJ	150	UJ
Aroclor-1242	39	U	53	U	57	U	58	U	35	U	35	U	37	UJ	150	UJ
Aroclor-1248	39	U	53	U	57	U	58	U	35	U	35	U	37	UJ	150	UJ
Aroclor-1254	39	U	53	U	57	U	58	U	35	U	35	U	37	UJ	150	UJ
Aroclor-1260	39	U	53	U	57	U	58	U	110		280	J	1100	J	880	J
Aroclor-1262	39	U	53	U	57	U	58	U	35	U	35	U	37	UJ	150	UJ
Aroclor-1268	39	U	53	U	57	U	58	U	35	U	35	U	37	UJ	150	UJ

Table 3
Soil Pesticide/PCB's
Chicago Industrial Waste Haulers

Sample Number :	E0024		E0025		E0026		E0027		E0029		E0030		E0035		E0038	
Sampling Location :	X108		X110		X111		X112		X114		X115		X116		X117	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/15/2008		4/15/2008		4/16/2008		4/15/2008		4/16/2008		4/16/2008		4/16/2008		4/17/2008	
Time Sampled :																
%Moisture :	11		22		16		19		13		14		26		20	
pH :	5.8		5.6		5.9		6.1		6.8		6.1		6.2		5.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	1.9	U	2.0	U	2.3	U	2.1	U
beta-BHC	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	1.9	U	2.0	U	2.3	U	2.1	U
delta-BHC	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	1.9	U	2.0	U	2.3	U	2.1	U
gamma-BHC (Lindane)	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	1.9	U	2.0	U	2.3	U	2.1	U
Heptachlor	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	1.9	U	2.0	U	2.3	U	2.1	U
Aldrin	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	1.9	U	2.0	U	2.3	U	2.1	U
Heptachlor epoxide	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	1.9	U	2.0	U	2.3	U	2.1	U
Endosulfan I	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	1.9	U	2.0	U	2.3	U	2.1	U
Dieldrin	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	3.8	U	3.8	U	4.4	U	4.1	U
4,4'-DDE	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	15		20		3.4	J	4.1	U
Endrin	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	3.8	U	3.8	U	4.4	U	4.1	U
Endosulfan II	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	3.8	U	3.8	U	4.4	U	4.1	U
4,4'-DDD	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	3.8	U	3.8	U	4.4	U	4.1	U
Endosulfan sulfate	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	3.8	U	3.8	U	4.4	U	4.1	U
4,4'-DDT	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	11	J	13	J	4.6	J	4.1	U
Methoxychlor	19	UJ	22	U	20	UJ	21	UJ	19	U	20	U	23	U	21	U
Endrin ketone	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	3.8	U	3.8	U	4.4	U	4.1	U
Endrin aldehyde	3.7	UJ	4.2	U	3.9	UJ	4.1	UJ	3.8	U	3.8	U	4.4	U	4.1	U
alpha-Chlordane	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	14		17		2.3	U	2.1	U
gamma-Chlordane	1.9	UJ	2.2	U	2.0	UJ	2.1	UJ	2.4		3.1		2.3	U	2.1	U
Toxaphene	190	UJ	220	U	200	UJ	210	UJ	190	U	200	U	230	U	210	U
Aroclor-1016	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U
Aroclor-1221	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U
Aroclor-1232	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U
Aroclor-1242	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U
Aroclor-1248	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U
Aroclor-1254	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U
Aroclor-1260	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U
Aroclor-1262	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U
Aroclor-1268	37	U	42	U	39	U	40	U	38	U	38	U	44	U	41	U

Table 3
Soil Pesticide/PCB's
Chicago Industrial Waste Haulers

Sample Number :	E0042		E0043		E0043DL		E0046		E00M0		E00M1		E00M1DL		E00M2		E00M2DL	
Sampling Location :	X118		X119		X119		X121		X122		X123		X123		X124		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/17/2008		4/17/2008				4/17/2008		6/25/2008		6/25/2008				6/25/2008			
Time Sampled :																		
%Moisture :	7		27		27		15		16		17		17		17		17	
pH :	5.3		6.1		6.1		5.6		7.4		7.2		7.2		7.5		7.5	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0		1.0		5.0		1.0		5.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.8	UJ	2.3	UJ	12	U	2.0	U	2.0	U	2.0	U	10	U	2.0	U	10	U
beta-BHC	1.8	UJ	2.3	UJ	12	U	2.0	U	2.0	U	2.0	U	10	U	2.0	U	10	U
delta-BHC	1.8	UJ	2.3	UJ	12	U	2.0	U	2.0	U	2.0	U	10	U	2.0	U	10	U
gamma-BHC (Lindane)	1.8	UJ	2.3	UJ	12	U	2.0	U	2.0	UJ	2.0	U	10	R	2.0	U	10	R
Heptachlor	1.8	UJ	2.3	UJ	12	U	2.0	U	2.0	U	0.50	J	10	U	2	U	10	U
Aldrin	1.8	UJ	2.3	UJ	12	U	2.0	U	2.0	U	2.0	U	10	U	2.0	U	10	U
Heptachlor epoxide	1.8	UJ	2.3	UJ	2.8	J	2.0	U	1.1	J	2.9	J	3.8	J	2.7	J	4.8	J
Endosulfan I	1.8	UJ	2.3	UJ	12	U	2.0	U	2.0	U	2.0	U	10	U	2.0	U	10	U
Dieldrin	3.6	UJ	4.5	UJ	22	U	3.9	U	18		37		52		42		63	
4,4'-DDE	3.6	UJ	35	J	70		3.9	U	33		89	J	130		89	J	140	
Endrin	3.6	UJ	4.5	UJ	22	U	3.9	U	3.9	U	3.9	U	20	U	3.9	U	20	U
Endosulfan II	3.6	UJ	4.5	UJ	22	U	3.9	U	3.9	U	3.9	U	20	U	3.9	U	20	U
4,4'-DDD	3.6	UJ	96	J	180		3.9	U	2.3	J	8.0	J	12	J	6.9	J	12	J
Endosulfan sulfate	3.6	UJ	4.5	UJ	22	U	3.9	U	3.9	U	3.9	U	20	U	1.9	J	20	U
4,4'-DDT	3.6	UJ	6.8	J	13	J	3.9	U	22		62		70		60		74	
Methoxychlor	18	UJ	23	UJ	120	U	20	U	20	U	20	U	100	U	20	U	100	U
Endrin ketone	3.6	UJ	4.5	UJ	22	U	3.9	U	2.9	J	2.5	J	20	U	3.9	U	20	U
Endrin aldehyde	3.6	UJ	4.5	UJ	22	U	3.9	U	3.9	U	3.9	U	20	U	3.1	J	20	U
alpha-Chlordane	1.8	UJ	5.9	J	12	U	2.0	U	1.3	J	5.3	J	7.1	J	4.8	J	7.5	J
gamma-Chlordane	1.8	UJ	5.1	J	11	J	2.0	U	0.93	J	3.5		5.2	J	3.6		5.7	J
Toxaphene	180	UJ	230	UJ	1200	U	200	U	200	U	200	U	1000	U	200	U	1000	U
Aroclor-1016	35	U	45	U			39	U	39	UJ	39	U			40	U		
Aroclor-1221	35	U	45	U			39	U	39	U	39	U			40	U		
Aroclor-1232	35	U	45	U			39	U	39	U	39	U			40	U		
Aroclor-1242	35	U	45	U			39	U	39	U	39	U			40	U		
Aroclor-1248	35	U	45	U			39	U	39	U	39	U			40	U		
Aroclor-1254	35	U	45	U			39	U	68	J	39	U			40	U		
Aroclor-1260	35	U	45	U			39	U	39	U	39	U			40	U		
Aroclor-1262	35	U	45	U			39	U	39	U	39	U			40	U		
Aroclor-1268	35	U	45	U			39	U	39	U	39	U			40	U		

Table 4
Soil Samples Inorganics
Chicago Industrial Waste Haulers

Sample Number :	ME0001		ME0004		ME0007		ME0012		ME0019		ME0022	
Sampling Location :	X101		X102		X103		X104		X105		X106	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/15/2008	
Time Sampled :												
%Solids :	83.7		90.8		73.4		66.9		92.4		93.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4860	J	2420	J	4310	J	772	J	1120	J	2620	J
ANTIMONY	6.8	UJ	6.3	UJ	7.9	UJ	8.5	UJ	6.4	UJ	6.3	UJ
ARSENIC	7.2		4.3		2.4		1.4	U	1.1	J	2.3	
BARIUM	106	J	20.8	J	72.3	J	188	J	19.7	J	47.7	J
BERYLLIUM	0.54	J	0.16	J	0.32	J	0.71	U	0.13	J	0.29	J
CADMIUM	1.1		0.15	J	0.26	J	0.71	U	0.24	J	0.37	J
CALCIUM	150000	J	118000	J	95000	J	158000	J	139000	J	132000	J
CHROMIUM	21.8		5.4		10.8		2.3		6.1		7.7	
COBALT	5.8		6.6		6.7		7.1	U	2.6	J	3.6	J
COPPER	63.5		12.2		16.8		8.3		6.9		9.9	
IRON	10200		10200		10300		1980		3130		5270	
LEAD	641	J	6.1	J-	37.4	J	7.5	J-	13.2	J	25.3	J
MAGNESIUM	41100		69800		41700		3740		80800		77100	
MANGANESE	496	J	302	J	375	J	208	J	199	J	212	J
MERCURY	3.0		0.11	U	0.098	J	0.14	U	0.10	U	0.10	
NICKEL	27.8		13.4		14.4		5.0	J	6.8		9.3	
POTASSIUM	458	J	1020	J	569	J	301	J	343	J	419	J
SELENIUM	1.3	J	3.7	U	4.6	U	5.0	U	3.8	U	3.7	U
SILVER	1.5	J	1.0	U	1.3	U	1.4	U	1.1	U	1.1	U
SODIUM	276	J	161	J	251	J	256	J	240	J	428	J
THALLIUM	2.8	U	2.6	U	3.3	U	3.6	U	2.7	U	2.6	U
VANADIUM	9.6		6.2		10.6		2.1	J	12.3		16.6	
ZINC	199		23.7		53.1		21.2		22.3		41.6	
CYANIDE	0.61	J	0.25	J	3.3	U	0.34	J	2.7	U	2.7	U
HEXAVALENT CR	0.9	L	U		U		U		0.5		U	

L- The identification of the analyte is acceptable, the reported value may be biased low. The actual value is expected to be greater than the reported value.

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Table 4
Soil Samples Inorganics
Chicago Industrial Waste Haulers

Sample Number :	ME0023		ME0024		ME0025		ME0026		ME0027		ME0029	
Sampling Location :	X107		X108		X110		X111		X112		X114	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/15/2008		4/15/2008		4/15/2008		4/16/2008		4/15/2008		4/16/2008	
Time Sampled :												
%Solids :	90.9		84.8		82.6		79.6		88.0		81.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4720	J	2300	J	6060	J	6630	J	2690	J	8740	J
ANTIMONY	6.3	UJ	6.7	UJ	7.0	UJ	7.2	UJ	6.5	UJ	7.1	UJ
ARSENIC	6.6		3.2		10.7		18.0		8.2		10.5	
BARIUM	54.8	J	28.7	J	152	J	163	J	29.4	J	77.1	J
BERYLLIUM	0.33	J	0.56	U	0.53	J	0.76		0.22	J	0.54	J
CADMIUM	0.52	J	0.28	J	1.9		5.0		0.30	J	0.94	J
CALCIUM	86000	J	186000	J	51000	J	94600	J	134000	J	59500	J
CHROMIUM	10.7		5.9	J	11.8	J	32.4	J	6.0	J	18.9	J
COBALT	7.1		5.1	J	6.7		10.1		9.9		15.2	
COPPER	20.9		14.8	J	85.5	J	165	J	24.2	J	47.3	J
IRON	11400		5150	J	18900	J	23100	J	14100	J	23600	J
LEAD	37.8	J	42.0	J	95.9	J	275	J	10.2	J	132	J
MAGNESIUM	39600		114000	J	13300	J	38500	J	93500	J	30500	J
MANGANESE	312	J	152	J	500	J	682	J	380	J	457	J
MERCURY	0.25		3.0		0.16		2.5		0.11	U	0.78	
NICKEL	17.0		10.3		20.7		38.3		21.0		40.1	
POTASSIUM	831	J	502	J	1110	J	1030	J	819	J	1910	J
SELENIUM	3.7	U	3.9	U	4.1	U	4.2	U	3.8	U	4.2	U
SILVER	1.0	U	1.1	U	0.57	J	3.4		1.1	U	1.2	U
SODIUM	235	J	281	J	506	J	618		269	J	193	J
THALLIUM	2.6	U	2.8	U	1.2	J	2.1	J	2.7	U	3.0	U
VANADIUM	14.8		7.7		14.5		25.1		8.9		21.2	
ZINC	76.3		47.3	J	362	J	830	J	42.6	J	209	J
CYANIDE	2.7	U	2.9	U	2.9	U	3.1	U	2.8	U	3.0	U
HEXAVALENT CR	U		U		U		0.5	L,*	U		U	

L- The identification of the analyte is acceptable, the reported value may be biased low. The actual value is expected to be greater than the reported value.

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Table 4
Soil Samples Inorganics
Chicago Industrial Waste Haulers

Sample Number :	ME0030		ME0035		ME0038		ME0042		ME0043		ME0046	
Sampling Location :	X115		X116		X117		X118		X119		X121	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/16/2008		4/16/2008		4/17/2008		4/17/2008		4/17/2008		4/17/2008	
Time Sampled :												
%Solids :	81.8		78.0		86.4		78.2		87.7		84.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	7180	J	9930	J	3850	J	8220	J	3080	J	3180	J
ANTIMONY	7.0	UJ	7.4	UJ	6.7	UJ	7.3	UJ	6.7	UJ	7.1	UJ
ARSENIC	10.4		11.6		5.1		6.0		5.1		6.0	
BARIUM	166	J	106	J	118	J	126	J	37.2	J	19.9	J
BERYLLIUM	0.71		0.74		0.56	U	0.61	U	0.28	J	0.59	U
CADMIUM	1.7		0.65		0.71		0.56	J	0.37	J	0.25	J
CALCIUM	64100	J	32900	J	79600	J	47100	J	126000	J	68600	J
CHROMIUM	20.8	J	15.6	J	198	J	12.0	J	8.0	J	7.1	J
COBALT	11.4		12.6		15.0		3.7	J	4.9	J	7.2	
COPPER	89.8	J	81.4	J	122	J	16.6	J	18.3	J	14.8	J
IRON	18000	J	21300	J	11400	J	5750	J	8860	J	11200	J
LEAD	413	J	54.6	J	255	J	101	J	31.2	J	11.7	J-
MAGNESIUM	33400	J	18300	J	23700	J	16300	J	64200	J	30100	J
MANGANESE	332	J	407	J	259	J	112	J	389	J	352	J
MERCURY	0.12	J	0.072	J	0.066	J	0.26		0.27		0.35	
NICKEL	30.7		28.4		24.5		8.8	J	11.4		14.0	
POTASSIUM	1550	J	1210	J	503	J	2140	J	463	J	578	J
SELENIUM	4.1	U	4.3	U	3.9	U	4.3	U	3.9	U	4.1	U
SILVER	0.34	J	1.2	U	1.1	U	1.2	U	1.1	U	1.2	U
SODIUM	276	J	617	U	363	J	701		184	J	592	U
THALLIUM	2.9	U	3.1	U	2.8	U	3.0	U	2.8	U	3.0	U
VANADIUM	22.7		22.6		11.4		12.0		8.2		10.9	
ZINC	401	J	159	J	311	J	305	J	59.0	J	46.9	J
CYANIDE	3.0	U	3.2	U	2.9	U	3.2	U	2.8	U	2.9	U
HEXAVALENT CR	0.4	J	U		0.3	J	U		U		U	

L- The identification of the analyte is acceptable, the reported value may be biased low. The actual value is expected to be greater than the reported value.

*- The duplicate analysis precision is not within control limits. The reported value is estimated.

Table 4
Soil Samples Inorganics
Chicago Industrial Waste Haulers

Sample Number :	ME00M0		ME00M1		ME00M2		ME00M0		ME00M1		ME00M2	
Sampling Location :	X122		X123		X124		X122		X123		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	6/25/2008		6/25/2008		6/25/2008		6/25/2008		6/25/2008		6/25/2008	
Time Sampled :												
%Solids :	84.8		83.9		82.5		84.8		83.9		82.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5560		5190		5490		5560		5190		5490	
ANTIMONY	1.0	J	0.93	J	0.88	J	7.1	U	7.2	U	0.88	J
ARSENIC	9.6		7.4		8.4		9.6		7.4		8.4	
BARIUM	72.7	J+	64.8	J+	67.8	J+	72.7		64.8		67.8	J+
BERYLLIUM	0.43	UJ	0.42	UJ	0.47	UJ	0.59	U	0.42	UJ	0.6	U
CADMIUM	0.72		0.72		0.68		0.72	J+	0.72	J +	0.72	J+
CALCIUM	18700		26300		30400		18700		26300		30400	
CHROMIUM	12.3		13.1		12.0		12.3	J	13.1	J	12.0	J
COBALT	6.2		6.6		6.7		6.2		6.6		6.7	
COPPER	28.9		24.0		24.8		24.8	J	24.0	J	24	J
IRON	13400		13100		13200		13400	J	13100	J	13200	J
LEAD	66.4		53.3		61.7		66.4	J	53.3	J	61.7	J
MAGNESIUM	9560		12900		14900		9560		12900		14900	
MANGANESE	305		311		410		305	J	311	J	410	J
MERCURY	0.11	J	0.094	J	0.059	J	0.12	U	0.12	U	0.12	U
NICKEL	14.2		14.6		14.8		14.2		14.6		14.8	
POTASSIUM	716	J+	719	J+	709	J+	716		719		709	
SELENIUM	4.1	U	4.2	U	4.2	U	4.1	UJ	4.2	UJ	4.2	UJ
SILVER	0.28	J-	0.25	J-	0.28	J-	1.2	UJ	1.2	UJ	1.2	UJ
SODIUM	74.3	J	70.6	J	91.7	J	74.3	J	70.6	J	91.7	J
THALLIUM	2.9	U	3.0	U	3.0	U	2.9	U	3.0	U	3.0	U
VANADIUM	15.7		14.5		15.3		15.7		14.5		15.3	
ZINC	150		112		123		150	J	112	J	123	J
CYANIDE	0.17	J	0.11	J	0.25	J	0.17	J	0.11	J	0.25	J

L- The identification of the analyte is acceptable, the reported value may be biased low. The actual value is expected to be greater than the reported value.

*- The duplicate analysis precision is not within control limits. The reported value is estimated.

Table 5
Groundwater VOC's
Chicago Industrial Waste Haulers

Sample Number :	E0020		E0031		E0032		E0036		E0040		E0044	
Sampling Location :	G101		G102		G103		G104		G105		G106	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/14/2008		4/16/2008		4/16/2008		4/16/2008		4/17/2008		4/17/2008	
Time Sampled :												
%Moisture :	N/A		N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl acetate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Butanone	10	U	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	16		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	20		5.0	U	5.0	U	5.0	U	5.0	U	110	
1,2-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R	100	R
Trichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylcyclohexane	9.6		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromodichloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U	10	U
Toluene	5.0	U	5.0	U	4.4	J	2.9	J	5.0	U	5.0	U
trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Ethylbenzene	66		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	2.5	J
m,p-Xylene	48		5.0	U	5.0	U	5.0	U	5.0	U	3.0	J
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	12		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Table 6
Groundwater SVOC's
Chicago Industrial Waste Haulers

Sample Number :	E0020		E0031		E0032		E0036		E0040		E0044	
Sampling Location :	G101		G102		G103		G104		G105		G106	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/14/2008		4/16/2008		4/16/2008		4/16/2008		4/17/2008		4/17/2008	
Time Sampled :												
%Moisture :	N/A		N/A		N/A		N/A		N/A		N/A	
pH :	6.1		5.9		5.1		5.8		5.6		5.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	17	
Bis(2-chloroethyl)ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,2'-Oxybis(1-chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	6.8		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	46		5.0	U	5.0	U	5.0	U	5.0	U	8.8	
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrophenol	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	10	U	10	U	10	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	2.9	J	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	2.2	J
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-ethylhexyl)phthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Table 7
Ground Water Pesticide and PCB
Chicago Industrial Waste Haulers

Sample Number :	E0020		E0031		E0032		E0036		E0040		E0044	
Sampling Location :	G101		G102		G103		G104		G105		G106	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/14/2008		4/16/2008		4/16/2008		4/16/2008		4/17/2008		4/17/2008	
Time Sampled :												
%Moisture :	N/A		N/A		N/A		N/A		N/A		N/A	
pH :	6.1		5.9		5.1		5.8		5.6		5.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Table 8
Ground Water Inorganic
Chicago Industrial Waste Haulers

Sample Number :	ME0040		ME0041		ME0044		ME0045	
Sampling Location :	G105		G105 F		G106		G106 F	
Matrix :	Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2008		4/17/2008		4/17/2008		4/17/2008	
Time Sampled :								
%Solids :	0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	1190		200	U	4450		116	UJ
ANTIMONY	60.0	U	60.0	U	60.0	U	60.0	U
ARSENIC	10.0	U	10.0	U	4.7	J	10.0	U
BARIUM	88.2	J	62.5		184	J	154	J
BERYLLIUM	5.0	U	5.0	U	5.0	U	5.0	U
CADMIUM	5.0	U	5.0	U	5.0	U	5.0	U
CALCIUM	135000		129000		274000		222000	
CHROMIUM	4.6	J	10.0	U	8.9	J	10.0	U
COBALT	50.0	U	50.0	U	50.0	U	50.0	U
COPPER	51.6		25.0	U	10.2	J	25.0	U
IRON	1280		41.8		11300		4280	
LEAD	111		10.0	U	10.8		10.0	U
MAGNESIUM	60200		58200		202000		169000	
MANGANESE	74.5		31.5		296		80.3	
MERCURY	0.20	R	0.20	R	0.067	R	0.20	R
NICKEL	40.0	U	40.0	U	40.0	U	40.0	U
POTASSIUM	7810		7280		13400		12300	
SELENIUM	35.0	U	35.0	U	35.0	U	35.0	U
SILVER	10.0	U	10.0	U	10.0	U	10.0	U
SODIUM	40400		40000		49000		49300	
THALLIUM	25.0	U	25.0	U	25.0	U	25.0	U
VANADIUM	50.0	U	50.0	U	50.0	U	50.0	U
ZINC	122		23.9	J	26.7	J	60.0	U
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U

Table 9
Surface Water VOC
Chicago Industrial Waste Haulers

Sample Number :	E0016		E0011		E0010		E0009		E0008		E0003	
Sampling Location :	S301		S302		S303		S304		S305		S306	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/15/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :												
%Moisture :	N/A		N/A		N/A		N/A		N/A		N/A	
pH:	2		2		2		2		2		2	
Dilution Factor :	1		1		1		1		1		1	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5	U	5	U	5	U	5	U	5	U	5	U
Chloromethane	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	5	U	5	U	5	U	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U	5	UJ
1,1-Dichloroethene	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	U	5	U	5	U	5	U	5	U	5	UJ
Acetone	13		12		13		9.7	J	12		10	U
Carbon disulfide	5	U	5	U	5	U	5	U	5	U	5	U
Methyl acetate	5	U	5	U	5	U	5	U	5	U	5	UJ
Methylene chloride	5	U	5	U	5	U	5	U	5	U	5	UJ
trans-1,2-Dichloroethene	5	U	5	U	5	U	5	U	5	U	5	U
Methyl tert-butyl ether	5	U	5	U	5	U	5	U	5	U	5	UJ
1,1-Dichloroethane	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone	10	U	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U	5	UJ
Cyclohexane	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U	5	UJ
Benzene	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U	5	UJ
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R	100	R
Trichloroethene	5	U	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U	10	U
Toluene	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane	5	U	5	U	5	U	5	U	5	U	5	UJ
Chlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U	5	U	5	U
o-Xylene	5	U	5	U	5	U	5	U	5	U	5	U
m,p-Xylene	5	U	5	U	5	U	5	U	5	U	5	U
Styrene	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U	5	U	5	U
Isopropylbenzene	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U	5	U
1,3-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
1,4-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromo-3-chloropropane	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-Trichlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U

Table 10
Surface Water SVOC
Chicago Industrial Waste Haulers

Sample Number :	E0016		E0011		E0010		E0009		E0008		E0003	
Sampling Location :	S301		S302		S303		S304		S305		S306	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/15/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :												
%Moisture :	N/A		N/A		N/A		N/A		N/A		N/A	
pH :	6.2		5.9		6.1		5.3		5.8		5.6	
Dilution Factor :	1		1		1		1		1		1	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5	U	5	U	5	U	5	U	5	U	5	U
Phenol	5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-chloroethyl)ether	5	U	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	5	U	5	U	5	U	5	U	5	U	5	U
2-Methylphenol	5	U	5	U	5	U	5	U	5	U	5	U
2,2'-Oxybis(1-chloropropane)	5	U	5	U	5	U	5	U	5	U	5	U
Acetophenone	5	U	5	U	5	U	5	U	5	U	5	U
4-Methylphenol	5	U	5	U	5	U	5	U	5	U	5	U
N-Nitroso-di-n-propylamine	5	U	5	U	5	U	5	U	5	U	5	U
Hexachloroethane	5	U	5	U	5	U	5	U	5	U	5	U
Nitrobenzene	5	U	5	U	5	U	5	U	5	U	5	U
Isophorone	5	U	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-chloroethoxy)methane	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dichlorophenol	5	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	5	U	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	5	U	5	U	5	U	5	U	5	U	5	U
Hexachlorobutadiene	5	U	5	U	5	U	5	U	5	U	5	U
Caprolactam	5	U	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-methylphenol	5	U	5	U	5	U	5	U	5	U	5	U
2-Methylnaphthalene	5	U	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	U	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	5	U	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol	5	U	5	U	5	U	5	U	5	U	5	U
1,1'-Biphenyl	5	U	5	U	5	U	5	U	5	U	5	U
2-Chloronaphthalene	5	U	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
Dimethylphthalate	5	U	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U	5	U
Acenaphthylene	5	U	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
Acenaphthene	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrophenol	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	10	U	10	U	10	U	10	U
Dibenzofuran	5	U	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	5	U	5	U	5	U	5	U	5	U	5	U
Diethylphthalate	5	U	5	U	5	U	5	U	5	U	5	U
Fluorene	5	U	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl-phenylether	5	U	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	10	U	10	U	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4,5-Tetrachlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
4-Bromophenyl-phenylether	5	U	5	U	5	U	5	U	5	U	5	U
Hexachlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
Atrazine	5	U	5	U	5	U	5	U	5	U	5	U
Pentachlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
Phenanthrene	5	U	5	U	5	U	5	U	5	U	5	U
Anthracene	5	U	5	U	5	U	5	U	5	U	5	U
Carbazole	5	U	5	U	5	U	5	U	5	U	5	U
Di-n-butylphthalate	5	U	5	U	5	U	5	U	5	U	5	U
Fluoranthene	5	U	5	U	5	U	5	U	5	U	5	U
Pyrene	5	U	5	U	5	U	5	U	5	U	5	U
Butylbenzylphthalate	5	U	5	U	5	U	5	U	5	U	5	U
3,3'-Dichlorobenzidine	5	U	5	U	5	U	5	U	5	U	5	U
Benzo(a)anthracene	5	U	5	U	5	U	5	U	5	U	5	U
Chrysene	5	U	5	U	5	U	5	U	5	U	5	U
Bis(2-ethylhexyl)phthalate	5	U	5	U	5	U	5	U	5	U	5	U
Di-n-octylphthalate	5	U	5	U	5	U	5	U	5	U	5	U
Benzo(b)fluoranthene	5	U	5	U	5	U	5	U	5	U	5	U
Benzo(k)fluoranthene	5	U	5	U	5	U	5	U	5	U	5	U
Benzo(a)pyrene	5	U	5	U	5	U	5	U	5	U	5	U
Indeno(1,2,3-cd)pyrene	5	U	5	U	5	U	5	U	5	U	5	U
Dibenzo(a,h)anthracene	5	U	5	U	5	U	5	U	5	U	5	U
Benzo(g,h,i)perylene	5	U	5	U	5	U	5	U	5	U	5	U
2,3,4,6-Tetrachlorophenol	5	U	5	U	5	U	5	U	5	U	5	U

Table 11
Surface Water Pesticide and PCB
Chicago Industrial Waste Haulers

Sample Number :	E0016		E0011		E0010		E0009		E0008		E0003	
Sampling Location :	S301		S302		S303		S304		S305		S306	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/15/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :												
%Moisture :	N/A		N/A		N/A		N/A		N/A		N/A	
pH :	6.2		5.9		6.1		5.3		5.8		5.6	
Dilution Factor :	1		1		1		1		1		1	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endosulfan sulfate	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Methoxychlor	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endrin aldehyde	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Toxaphene	5	U	5	U	5	U	5	U	5	U	5	U
Aroclor-1016	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1221	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1232	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1242	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1248	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1254	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1260	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1262	1	U	1	U	1	U	1	U	1	U	1	U
Aroclor-1268	1	U	1	U	1	U	1	U	1	U	1	U

Table 12
Surface Water Inorganic
Chicago Industrial Waste Haulers

Sample Number :	ME0016		ME0011		ME0010		ME0009		ME0008		ME0003	
Sampling Location :	S301		S302		S303		S304		S305		S306	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/15/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :												
%Solids :	0.0		0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	405		662		332		130	UJ	137	UJ	187	UJ
ANTIMONY	60.0	U	60.0	U	60.0	U	60.0	U	60.0	U	60.0	U
ARSENIC	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
BARIUM	70.0		70.5		69.3		62.1		64.7		66.1	
BERYLLIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
CADMIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
CALCIUM	140000		130000		137000		127000		132000		136000	
CHROMIUM	10.0	U	3.4	J	10.0	U	10.0	U	10.0	U	10.0	U
COBALT	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
COPPER	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U
IRON	1090		1700		1760		561		575		643	
LEAD	10.0	U	7.1	J	5.7	J	10.0	U	10.0	U	10.0	U
MAGNESIUM	55100		51800		53300		50200		52000		52800	
MANGANESE	133		127		159		104		108		116	
MERCURY	0.20	R	0.20	R	0.20	R	0.20	R	0.20	R	0.20	R
NICKEL	40.0	U	40.0	U	40.0	U	40.0	U	40.0	U	40.0	U
POTASSIUM	4230	J	4590	J	5050		4570	J	4750	J	4770	J
SELENIUM	35.0	U	35.0	U	35.0	U	35.0	U	35.0	U	35.0	U
SILVER	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
SODIUM	147000		153000		147000		148000		154000		160000	
THALLIUM	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U
VANADIUM	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
ZINC	60.0	U	33.1	J	29.9	J	60.0	U	60.0	U	60.0	U
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

Table 13
Sediment VOC
Chicago Industrial Waste Haulers

Sample Number :	E0015		E0014		E0013		E0005		E0005RE		E0006		E0002		E0002RE	
Sampling Location :	X201		X202		X203		X204		X204		X205		X206		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/15/2008		4/14/2008		4/14/2008		4/14/2008				4/14/2008		4/14/2008			
Time Sampled :																
%Moisture :	68		53		60		56		56		55		57		57	
pH :	5.8		5.1		5.9		4.9		4.9		5.8		5.6		5.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Chloromethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Vinyl chloride	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Bromomethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Chloroethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Trichlorofluoromethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,1-Dichloroethene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Acetone	180		240		390		28		34		74		130		81	
Carbon disulfide	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Methyl acetate	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Methylene chloride	15	U	11	U	13	U	11	UJ	11	U	28		11	U	11	U
trans-1,2-Dichloroethene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Methyl tert-butyl ether	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,1-Dichloroethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
cis-1,2-Dichloroethene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
2-Butanone	58		56		80		23	U	23	U	22	U	23	U	35	
Bromochloromethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Chloroform	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,1,1-Trichloroethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Cyclohexane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Carbon tetrachloride	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Benzene	15	U	11	U	32		11	U	11	U	11	U	11	U	11	U
1,2-Dichloroethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,4-Dioxane	310	R	210	R	250	R	230	U	230	U	220	R	230	R	230	R
Trichloroethene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Methylcyclohexane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,2-Dichloropropane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Bromodichloromethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
cis-1,3-Dichloropropene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
4-Methyl-2-pentanone	31	U	21	U	25	U	23	U	23	U	22	U	23	U	23	U
Toluene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
trans-1,3-Dichloropropene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,1,2-Trichloroethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Tetrachloroethene	19		11	U	13	U	11	U	11	U	11	UJ	11	U	11	UJ
2-Hexanone	31	U	21	U	25	U	23	U	23	U	22	U	23	U	23	U
Dibromochloromethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,2-Dibromoethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Chlorobenzene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Ethylbenzene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
o-Xylene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
m,p-Xylene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Styrene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
Bromoform	15	U	11	R	13	U	11	R	11	R	11	R	11	R	11	R
Isopropylbenzene	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,1,2,2-Tetrachloroethane	15	U	11	U	13	U	11	U	11	U	11	U	11	U	11	U
1,3-Dichlorobenzene	15	U	11	R	13	U	11	R	11	R	11	R	11	R	11	R
1,4-Dichlorobenzene	15	U	11	R	13	U	11	R	11	R	11	R	11	R	11	R
1,2-Dichlorobenzene	15	U	11	R	13	U	11	R	11	R	11	R	11	R	11	R
1,2-Dibromo-3-chloropropane	15	U	11	R	13	U	11	R	11	R	11	R	11	R	11	R
1,2,4-Trichlorobenzene	15	U	11	R	13	U	11	R	11	R	11	R	11	R	11	R
1,2,3-Trichlorobenzene	15	U	11	R	13	U	11	R	11	R	11	R	11	R	11	R

Table 14
Sediment SVOC
Chicago Industrial Waste Haulers

Sample Number :	E0015		E0014		E0014DL		E0013		E0005		E0006		E0002	
Sampling Location :	X201		X202		X202		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/15/2008		4/14/2008				4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :														
%Moisture :	68		53		53		60		56		55		57	
pH :	5.8		5.1		5.1		5.9		4.9		5.8		5.6	
Dilution Factor :	1.0		1.0		4.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	120	J	79	J	1400	U	96	J	120	J	84	J	390	U
Phenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Bis(2-chloroethyl)ether	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2-Chlorophenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2-Methylphenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2,2'-Oxybis(1-chloropropane)	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Acetophenone	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
4-Methylphenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
N-Nitroso-di-n-propylamine	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Hexachloroethane	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Nitrobenzene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Isophorone	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2-Nitrophenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2,4-Dimethylphenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Bis(2-chloroethoxy)methane	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2,4-Dichlorophenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Naphthalene	530	U	360	U	1400	U	420	U	140	J	380	U	390	U
4-Chloroaniline	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Hexachlorobutadiene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Caprolactam	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
4-Chloro-3-methylphenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2-Methylnaphthalene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Hexachlorocyclopentadiene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2,4,6-Trichlorophenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2,4,5-Trichlorophenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
1,1'-Biphenyl	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2-Chloronaphthalene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2-Nitroaniline	1000	U	700	U	2800	U	810	U	750	U	730	U	760	U
Dimethylphthalate	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
2,6-Dinitrotoluene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Acenaphthylene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
3-Nitroaniline	1000	U	700	U	2800	U	810	U	750	U	730	U	760	U
Acenaphthene	530	U	360	J	1400	U	420	U	120	J	110	J	390	U
2,4-Dinitrophenol	1000	U	700	U	2800	U	810	U	750	U	730	U	760	U
4-Nitrophenol	1000	U	700	U	2800	U	810	U	750	U	730	U	760	U
Dibenzofuran	530	U	180	J	1400	U	420	U	76	J	380	U	390	U
2,4-Dinitrotoluene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Diethylphthalate	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Fluorene	130	J	350	J	1400	U	110	J	180	J	140	J	390	U
4-Chlorophenyl-phenylether	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
4-Nitroaniline	1000	U	700	U	2800	U	810	U	750	U	730	U	760	U
4,6-Dinitro-2-methylphenol	1000	U	700	U	2800	U	810	U	750	U	730	U	760	U
N-Nitrosodiphenylamine	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
1,2,4,5-Tetrachlorobenzene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
4-Bromophenyl-phenylether	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Hexachlorobenzene	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Atrazine	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Pentachlorophenol	1000	R	700	R	2800	U	810	R	750	R	730	R	760	R
Phenanthrene	1000		2200		1600	J	1400		1900		1800		950	
Anthracene	150	J	350	J	1400	U	200	J	330	J	420		170	J
Carbazole	100	J	260	J	1400	U	210	J	280	J	250	J	120	J
Di-n-butylphthalate	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Fluoranthene	3500		5900		6800	J	4300		5700		6100		4700	
Pyrene	2200		3900		3200	J	3400		4500		4400		2900	
Butylbenzylphthalate	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
3,3'-Dichlorobenzidine	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Benzo(a)anthracene	990		2300		1500	J	1800		2400		2700		1500	
Chrysene	1200		2800		2300	J	2200		2800		2900		1900	
Bis(2-ethylhexyl)phthalate	980		1100		610	J	870		1600		1500		950	
Di-n-octylphthalate	530	U	360	U	1400	U	420	U	390	U	380	U	390	U
Benzo(b)fluoranthene	1400		2700		2700	J	2500		2900		3600		2300	
Benzo(k)fluoranthene	890		1800		1700	J	1500		1700		2200		1500	
Benzo(a)pyrene	1100		2300		1900	J	2000		2400		2600		1700	
Indeno(1,2,3-cd)pyrene	910		2000		1500	J	2200		2500		2400		1400	
Dibenzo(a,h)anthracene	300	J	630		1400	U	710		870		860		510	
Benzo(g,h,i)perylene	1100		2100		1600	J	2600		2700		2600		1500	
2,3,4,6-Tetrachlorophenol	530	U	360	U	1400	U	420	U	390	U	380	U	390	U

Table 15
Sediment Pesticide and PCB
Chicago Industrial Waste Haulers

Sample Number :	E0015		E0014		E0013		E0005		E0006		E0002	
Sampling Location :	X201		X202		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/15/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :												
%Moisture :	68		53		60		56		55		57	
pH :	5.8		5.1		5.9		4.9		5.8		5.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
beta-BHC	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
delta-BHC	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
gamma-BHC (Lindane)	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
Heptachlor	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
Aldrin	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
Heptachlor epoxide	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
Endosulfan I	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
Dieldrin	10	U	7.0	U	8.2	U	4.1	J	7.3	U	7.6	U
4,4'-DDE	10	U	7.0	U	8.2	U	7.8		7.3	U	7.6	U
Endrin	10	U	7.0	U	8.2	U	7.5	U	7.3	U	7.6	U
Endosulfan II	10	U	7.0	U	8.2	U	7.5	U	7.3	U	7.6	U
4,4'-DDD	10	U	7.0	U	8.2	U	11		7.3	U	7.6	U
Endosulfan sulfate	10	U	7.0	U	8.2	U	7.5	U	7.3	U	7.6	U
4,4'-DDT	10	U	7.0	U	8.2	U	7.5	U	7.3	U	7.6	U
Methoxychlor	53	U	36	U	42	U	39	U	38	U	39	U
Endrin ketone	10	U	7.0	U	8.2	U	7.5	U	7.3	U	7.6	U
Endrin aldehyde	10	U	7.0	U	8.2	U	2.8	J	7.3	U	7.6	U
alpha-Chlordane	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
gamma-Chlordane	5.3	U	3.6	U	4.2	U	3.9	U	3.8	U	3.9	U
Toxaphene	530	U	360	U	420	U	390	U	380	U	390	U
Aroclor-1016	100	U	70	U	82	U	75	U	73	U	76	U
Aroclor-1221	100	U	70	U	82	U	75	U	73	U	76	U
Aroclor-1232	100	U	70	U	82	U	75	U	73	U	76	U
Aroclor-1242	100	U	70	U	82	U	75	U	73	U	76	U
Aroclor-1248	100	U	70	U	82	U	75	U	73	U	76	U
Aroclor-1254	100	U	70	U	82	U	75	U	73	U	76	U
Aroclor-1260	100	U	70	U	82	U	79		79		32	J
Aroclor-1262	100	U	70	U	82	U	75	U	73	U	76	U
Aroclor-1268	100	U	70	U	82	U	75	U	73	U	76	U

Table 16
Sediment Inorganic
Chicago Industrial Waste Haulers

Sample Number :	ME0015		ME0014		ME0013		ME0005		ME0006		ME0002	
Sampling Location :	X201		X202		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/15/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :												
%Solids :	41.9		51.5		38.4		45.9		44.3		38.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5850	J	2840	J	5710	J	6330	J	6460	J	5250	J
ANTIMONY	13.8	UJ	11.2	UJ	14.9	UJ	12.8	UJ	13.4	UJ	15.4	UJ
ARSENIC	7.4		3.8		9.5		8.8		8.2		9.0	
BARIUM	82.6	J+	25.9	J+	77.6	J+	74.0	J+	98.5	J+	131	J+
BERYLLIUM	0.42	J	0.93	U	0.37	J	0.49	J	0.45	J	0.38	J
CADMIUM	1.7	J	0.62	J	1.5	J	2.1		2.2		1.5	J
CALCIUM	66400		54000		69900		76700		71100		96200	
CHROMIUM	22.9		17.6		27.5		30.8		27.2		28.7	
COBALT	11.1	J	6.5	J	12.8	J	10.8	J	11.0	J	13.9	J
COPPER	56.4		24.2		63.4		63.3		63.3		62.0	
IRON	19900		9310		21000		20000		19400		20600	
LEAD	157		42.1		98.3		140		141		98.3	
MAGNESIUM	23700		16600		26800		31300		27600		36100	
MANGANESE	478	J	202	J	465	J	453	J	424	J	423	J
MERCURY	0.096	U	0.19	U	0.26	U	0.24		0.30		0.26	U
NICKEL	29.1		16.4		30.3		28.2		28.2		30.9	
POTASSIUM	955	J+	445	J+	1150	J+	1070	J+	1160	J+	1030	J+
SELENIUM	8.0	U	6.5	U	8.7	U	7.5	U	7.8	U	9.0	U
SILVER	2.3	U	1.9	U	2.5	U	2.1	U	2.2	U	2.6	U
SODIUM	383	J+	934	U	1240	U	360	J+	437	J+	335	J+
THALLIUM	5.7	U	4.7	U	6.2	U	5.3	U	5.6	U	6.4	U
VANADIUM	16.8	J	8.9	J	18.0	J	21.0	J	18.5	J	18.8	J
ZINC	253		115		275		313		318		281	
CYANIDE	5.8	U	4.8	U	6.5	U	5.4	U	5.5	U	6.4	U

Table 17
Key Sample Summary Soil Volatile
Chicago Industrial Waste Haulers

Sample Number :	E0035		E0004		E0004DL		E0007		E0012		E0012DL		E0019		E0019DL	
Sampling Location :	X116		X102		X102		X103		X104		X104		X105		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/16/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :																
%Moisture :	26		38		38		43		43		43		7		7	
pH:	6.2		5.9		5.9		6.1		5.3		5.3		5.3		5.3	
Dilution Factor :	1.0		1.0		100		1.0		1.0		10		1.0		10	
Volatile Compound	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	31								5000							
Methylene chloride	7.2	U							1300	J						
2-Butanone	14	U					32									
Chloroform	7.2	U	7300													
1,1,1-Trichloroethane	7.2	U														
Cyclohexane	7.2	U	36000		38000	J	5.8	J	1600	J						
Benzene	7.2	U	200000	J	440000		87		31000		27000		270	J	48	J
Methylcyclohexane	7.2	U	28000						3800		3700	J				
Toluene	7.2	U	91000		120000		5.5	J	12000		13000		7.1	U	54	U
Tetrachloroethene	7.2	U	2800													
Chlorobenzene	7.2	U	2900						160000		140000		560		260	
Ethylbenzene	7.2	U	97000		110000		26		15000		13000					
o-Xylene	7.2	U	130000		130000				20000		17000					
m,p-Xylene	7.2	U	250000		330000		27		45000		39000					
Isopropylbenzene	7.2	U	15000						5600		5100	J	110		58	
1,4-Dichlorobenzene	7.2	U							2900							
1,2-Dichlorobenzene	7.2	U							5000		4500	J				

Table 17
Key Sample Summary Soil Volatile
Chicago Industrial Waste Haulers

Sample Number :	E0035		E0022		E0022DL		E0023		E0024		E0025		E0027		E0027DL	
Sampling Location :	X116		X106		X106		X107		X108		X110		X112		X112	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/16/2008		4/15/2008		4/15/2008		4/15/2008		4/15/2008		4/15/2008		4/15/2008		4/15/2008	
Time Sampled :																
%Moisture :	26		6		6		11		11		22		19		19	
pH:	6.2		5.6		5.6		5.3		5.8		5.6		6.1		6.1	
Dilution Factor :	1.0		1.0		10		1.0		1.0		1.0		1.0		5	
Volatile Compound	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	31						250						1400		5500	
Methylene chloride	7.2	U													1200	J
2-Butanone	14	U					66						3700		5900	
Chloroform	7.2	U														
1,1,1-Trichloroethane	7.2	U														
Cyclohexane	7.2	U	46		41	J					72		200	J		
Benzene	7.2	U	760		790						34		38000		52000	
Methylcyclohexane	7.2	U	76		93						300		610			
Toluene	7.2	U											4600		5900	
Tetrachloroethene	7.2	U							55							
Chlorobenzene	7.2	U														
Ethylbenzene	7.2	U											970		1300	J
o-Xylene	7.2	U											2400		3200	
m,p-Xylene	7.2	U	35		46	J					200		4400		5800	
Isopropylbenzene	7.2	U	49		61								260	J		
1,4-Dichlorobenzene	7.2	U														
1,2-Dichlorobenzene	7.2	U														

Table 17
Key Sample Summary Soil Volatile
Chicago Industrial Waste Haulers

Sample Number :	E0035		E0029		E0030		E0042		E0042DL		E0043		E0046	
Sampling Location :	X116		X114		X115		X118		X118		X119		X121	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/16/2008		4/16/2008		4/16/2008		4/17/2008				4/17/2008		4/17/2008	
Time Sampled :														
%Moisture :	26		13		14		7		7		27		15	
pH:	6.2		6.8		6.1		5.3		5.3		6.1		5.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetone	31										71			
Methylene chloride	7.2	U									65		52	
2-Butanone	14	U									380			
Chloroform	7.2	U												
1,1,1-Trichloroethane	7.2	U												
Cyclohexane	7.2	U					9900	J						
Benzene	7.2	U					620000	J	300000		250		430	
Methylcyclohexane	7.2	U					18000							
Toluene	7.2	U					84000		48000		35		50	
Tetrachloroethene	7.2	U												
Chlorobenzene	7.2	U												
Ethylbenzene	7.2	U					28000		14000	J				
o-Xylene	7.2	U	90		150		30000		14000	J	36			
m,p-Xylene	7.2	U	21		120		83000		39000		38			
Isopropylbenzene	7.2	U	23		50						28			
1,4-Dichlorobenzene	7.2	U												
1,2-Dichlorobenzene	7.2	U												

Table 18
Key Sample Summary Soil Semivolatile
Chicago Industrial Waste Haulers

Sample Number :	E0035		E0004		E0004DL		E0012		E0012DL		E0012RE		E0023		E0023DL	
Sampling Location :	X116		X102		X102		X104		X104		X104		X107		X107	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/16/2008		4/14/2008				4/14/2008						4/15/2008			
Time Sampled :																
%Moisture :	26		38		38		43		43		43		11		11	
pH :	6.2		5.9		5.9		5.3		5.3		5.3		5.3		5.3	
Dilution Factor :	1.0		1.0		8.0		1.0		10.0		1.0		1.0		4.0	
Semivolatile Compound	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	1500	J	11000		12000		5400				5800					
Acetophenone	230	U	7400		7400		9900	J	8200		11000					
Naphthalene	230	U	18000		33000		18000		17000		20000					
2-Methylnaphthalene	230	U	10000		11000		12000		20000		15000					
1,1'-Biphenyl	230	U	1900		1600	J	4600		2500	J	4300					
Acenaphthene	230	U	3800		4100		2900		2500	J	3000					
Dibenzofuran	230	U	4200		3700		3800		2700	J	3400					
Fluorene	230	U	11000		15000		2900		5000		3100					
Pentachlorophenol	440	U							5800	U						
Phenanthrene	250	J	11000		18000		19000	J	13000	J	19000	J	2200		2700	
Anthracene	230	U	2100				5300	J	2500	J	4800	J				
Carbazole	230	U	1800		3500		300	R								
Fluoranthene	650	J	7800		11000	J	6500	J	6000	J	6900		4100		3300	
Pyrene	230	UJ	6800		8900	J	11000	J	7800	J	12000		2600		3900	
Benzo(a)anthracene	230	UJ	3100		2900	J	3000	J	2200	J	2900		1800		1900	
Chrysene	230	UJ	2900		3000	J	3300	J	2500	J	3200		1500		2200	
Benzo(b)fluoranthene	180	J	1700		1900	J	750				600		1700		1900	
Benzo(k)fluoranthene	190	J	1200		1400	J	650				760		1200		1800	
Benzo(a)pyrene	210	J	630		800	J	1600				1600		1900		2300	
Indeno(1,2,3-cd)pyrene	140	J	1600		1300	J	1000				940		1300		1500	
Dibenzo(a,h)anthracene	230	U	750		830	J										
Benzo(g,h,i)perylene	160	J	2200		1800	J	2000				1900		1400		1500	

Table 18
Key Sample Summary Soil Semivolatile
Chicago Industrial Waste Haulers

Sample Number :			E0035		E0025		E0026		E0027		E0027RE		E0029		E0029RE		E0030	
Sampling Location :			X116		X110		X111		X112		X112		X114		X114		X115	
Matrix :			Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :			ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			4/16/2008		4/15/2008		4/16/2008		4/15/2008				4/16/2008				4/16/2008	
Time Sampled :																		
%Moisture :			26		22		16		19		19		13		13		14	
pH :			6.2		5.6		5.9		6.1		6.1		6.8		6.8		6.1	
Dilution Factor :			1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acetophenone	230	U					1800		1600									
Naphthalene	230	U					1200		1200									
2-Methylnaphthalene	230	U	730				1200		1100									
Fluorene	230	U					800											
Phenanthrene	250	J													1100		4200	
Anthracene	230	U															850	
Fluoranthene	650	J			1500								2100		2300		8000	
Pyrene	230	UJ			820												4000	J
Benzo(a)anthracene	230	UJ															2300	J
Chrysene	230	UJ															2400	J
Benzo(b)fluoranthene	180	J															3000	J
Benzo(k)fluoranthene	190	J															1300	J
Benzo(a)pyrene	210	J															2200	J
Indeno(1,2,3-cd)pyrene	140	J															1500	J
Benzo(g,h,i)perylene	160	J															1500	J

Table 18
Key Sample Summary Soil Semivolatile
Chicago Industrial Waste Haulers

Sample Number :	E0035		E0030DL		E0030RE		E0042		E0042DL		E0043		E0043DL		E0046	
Sampling Location :	X116		X115		X115		X118		X118		X119		X119		X121	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/16/2008						4/17/2008				4/17/2008				4/17/2008	
Time Sampled :																
%Moisture :	26		14		14		7		7		27		27		15	
pH :	6.2		6.1		6.1		5.3		5.3		6.1		6.1		5.6	
Dilution Factor :	1.0		5.0		1.0		1.0		10.0		1.0		10.0		1.0	
Semivolatile Compound	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Phenol	230	U					1000									
Acetophenone	230	U									10000					
Naphthalene	230	U					7700		6300		3200		3600			
2-Methylnaphthalene	230	U					3900		2300		3700		3000			
Acenaphthylene	230	U									1800					
Acenaphthene	230	U					2100		1800		1700					
Dibenzofuran	230	U					2000				2300	J	2400			
Fluorene	230	U					5200		3200		8600	J	7300			
Phenanthrene	250	J	3500	J	4300	J	9100		7800		6700	J	8100	J	1200	
Anthracene	230	U					2800		2700		21000	J	46000	J		
Carbazole	230	U					1200				9300	J	9800			
Fluoranthene	650	J	7300	J	8200	J	6600		3800		15000	J	16000	J		
Pyrene	230	UJ	3600	J	3900	J	2300		2400		12000	J	15000	J	750	
Benzo(a)anthracene	230	UJ			2300	J	930				4400	J	5700	J		
Chrysene	230	UJ			2400	J	910				5900	J	8100	J		
Benzo(b)fluoranthene	180	J	2100	J	2800	J	450				2700	J	4200			
Benzo(k)fluoranthene	190	J	1300	J			580				3400	J	3900			
Benzo(a)pyrene	210	J			2200	J	640				3300	J	5600			
Indeno(1,2,3-cd)pyrene	140	J			1400	J	340				1800	J	2700			
Benzo(g,h,i)perylene	160	J					360				2300	J	3400			

Table 18
Key Sample Summary Soil Semivolatile
Chicago Industrial Waste Haulers

Sample Number :	E0035		E00M2	
Sampling Location :	X116		X124	
Matrix :	Soil		Soil	
Units :	ug/Kg		ug/Kg	
Date Sampled :	4/16/2008		6/25/2008	
Time Sampled :				
%Moisture :	26		17	
pH :	6.2		7.5	
Dilution Factor :	1.0		1.0	
Semivolatile Compound	BACKGROUND		Result	Flag
Phenanthrene	250	J	1700	

Table 19
Key Sample Summary Soil Pesticide and PCB
Chicago Industrial Waste Haulers

Sample Number :	E0035		E0023		E0023DL		E0029		E0030		E0043		E0043DL	
Sampling Location :	X116		X107		X107		X114		X115		X119		X119	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/16/2008		4/15/2008				4/16/2008		4/16/2008		4/17/2008			
Time Sampled :														
%Moisture :	26		11		11		13		14		27		27	
pH :	6.2		5.3		5.3		6.8		6.1		6.1		6.1	
Dilution Factor :	1.0		1.0		4.0		1.0		1.0		1.0		5.0	
Pesticide/PCB Compound	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
4,4'-DDE	3.4	J					15		20		35	J	70	
4,4'-DDD	4.4	U									96	J	180	
Aroclor-1260	44	U	1100	J	880	J								

Sample Number :	E0035		E00M0		E00M1		E00M1DL		E00M2		E00M2DL	
Sampling Location :	X116		X122		X123		X123		X124		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/16/2008		6/25/2008		6/25/2008				6/25/2008			
Time Sampled :												
%Moisture :	26		16		17		17		17		17	
pH :	6.2		7.4		7.2		7.2		7.5		7.5	
Dilution Factor :	1.0		1.0		1.0		5.0		1.0		5.0	
Pesticide/PCB Compound	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dieldrin	4.4	U	18		37		52		42		63	
4,4'-DDE	3.4	J	33		89	J	130		89	J	140	
4,4'-DDT	4.6	J	22		62		70		60		74	

Table 20
Key Sample Summary Soil Inorganics
Chicago Industrial Waste Haulers

Sample Number :	ME0035		ME0001		ME0004		ME0007		ME0012		ME0019		ME0022	
Sampling Location :	X116		X101		X102		X103		X104		X105		X106	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/16/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/15/2008	
Time Sampled :														
%Solids :	78.0		83.7		90.8		73.4		66.9		92.4		93.2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
LEAD	54.6	J	641	J										
MAGNESIUM	18300	J	41100		69800		41700				80800		77100	
MERCURY	0.072	J	3.0											
HEXAVALENT CR	U		0.9	L							0.5			

Sample Number :	ME0035		ME0023		ME0024		ME0025		ME0026		ME0027		ME0029	
Sampling Location :	X116		X107		X108		X110		X111		X112		X114	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/16/2008		4/15/2008		4/15/2008		4/15/2008		4/16/2008		4/15/2008		4/16/2008	
Time Sampled :														
%Solids :	78.0		90.9		84.8		82.6		79.6		88.0		81.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
CADMIUM	0.65						1.9		5.0					
MAGNESIUM	18300	J	39600											
MERCURY	0.072	J			3.0				2.5					
ZINC	159	J							830	J				
HEXAVALENT CR	U								0.5	L,*				

Sample Number :	ME0035		ME0030		ME0038		ME0042		ME0043		ME0046	
Sampling Location :	X116		X115		X117		X118		X119		X121	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/16/2008		4/16/2008		4/17/2008		4/17/2008		4/17/2008		4/17/2008	
Time Sampled :												
%Solids :	78.0		81.8		86.4		78.2		87.7		84.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
MERCURY	0.072	J					0.26		0.27		0.35	
HEXAVALENT CR	U		0.4	J	0.3	J						

Table 21
Key Sample Summary GW VOC
Chicago Industrial Waste Haulers

Sample Number :	E0040		E0020		E0044	
Sampling Location :	G105		G101		G106	
Matrix :	Water		Water		Water	
Units :	ug/L		ug/L		ug/L	
Date Sampled :	4/17/2008		4/14/2008		4/17/2008	
Time Sampled :						
%Moisture :	N/A		N/A		N/A	
pH :	2		2		2	
Dilution Factor :	1.0		1.0		1.0	
Volatile Compound	BACKGROUND		Result	Flag	Result	Flag
Cyclohexane	5.0	U	16			
Benzene	5.0	U	20		110	
Ethylbenzene	5.0	U	66			
m,p-Xylene	5.0	U	48			

Table 22
Key Sample Summary GW SVOC
Chicago Industrial Waste Haulers

Sample Number :	E0040		E0020		E0044	
Sampling Location :	G105		G101		G106	
Matrix :	Water		Water		Water	
Units :	ug/L		ug/L		ug/L	
Date Sampled :	4/17/2008		4/14/2008		4/17/2008	
Time Sampled :						
%Moisture :	N/A		N/A		N/A	
pH :	5.6		6.1		5.9	
Dilution Factor :	1.0		1.0		1.0	
Semivolatile Compound	BACKGROUND		Result	Flag	Result	Flag
Phenol	5.0	U			17	
4-Chloroaniline	5.0	U	46			

Table 23
Key Sample Summary GW Inorganic
Chicago Industrial Waste Haulers

Sample Number :	ME0040		ME0020		ME0031		ME0032		ME0036		ME0044	
Sampling Location :	G105		G101		G102		G103		G104		G106	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	4/17/2008		4/14/2008		4/16/2008		4/16/2008		4/16/2008		4/17/2008	
Time Sampled :												
%Solids :	0.0		0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	BACKGROUND		Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	1190								6620		4450	
CALCIUM	135000		625000						598000			
IRON	1280				11400		11300		50000		11300	
MAGNESIUM	60200										202000	
MANGANESE	74.5		435		631		601		2250		296	

Table 24
Key Sample Summary Sediment SVOC
Chicago Industrial Waste Haulers

Sample Number :	E0015		E0014		E0014DL		E0013		E0005		E0006		E0002	
Sampling Location :	X201		X202		X202		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/15/2008		4/14/2008				4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :														
%Moisture :	68		53		53		60		56		55		57	
pH :	5.8		5.1		5.1		5.9		4.9		5.8		5.6	
Dilution Factor :	1.0		1.0		4.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Phenanthrene	1000		2200		1600	J	1400		1900		1800		950	
Anthracene			350	J	1400	U			330	J	420			
Fluoranthene	3500		5900		6800	J	4300		5700		6100		4700	
Pyrene	2200		3900		3200	J	3400		4500		4400		2900	
Benzo(a)anthracene	990		2300		1500	J	1800		2400		2700		1500	
Chrysene	1200		2800		2300	J	2200		2800		2900		1900	
Benzo(k)fluoranthene	890		1800		1700	J	1500		1700		2200		1500	
Benzo(a)pyrene	1100		2300		1900	J	2000		2400		2600		1700	
Indeno(1,2,3-cd)pyrene	910		2000		1500	J	2200		2500		2400		1400	
Benzo(g,h,i)perylene	1100		2100		1600	J	2600		2700		2600		1500	

Table 25
Key Sample Summary Sediment Pesticide/PCB
Chicago Industrial Waste Haulers

Sample Number :	E0005		E0006		E0002	
Sampling Location :	X204		X205		X206	
Matrix :	Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	4/14/2008		4/14/2008		4/14/2008	
Time Sampled :						
%Moisture :	56		55		57	
pH :	4.9		5.8		5.6	
Dilution Factor :	1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag
4,4'-DDE	7.8					
4,4'-DDD	11					
Aroclor-1260	79		79		32	J

Table 26
Key Sample Summary Sediment Inorganic
Chicago Industrial Waste Haulers

Sample Number :	ME0015		ME0014		ME0013		ME0005		ME0006		ME0002	
Sampling Location :	X201		X202		X203		X204		X205		X206	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	4/15/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008		4/14/2008	
Time Sampled :												
%Solids :	41.9		51.5		38.4		45.9		44.3		38.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ARSENIC	7.4				9.5		8.8		8.2		9.0	
CADMIUM	1.7	J	0.62	J	1.5	J	2.1		2.2		1.5	J
CHROMIUM					27.5		30.8		27.2		28.7	
COPPER	56.4		24.2		63.4		63.3		63.3		62.0	
LEAD	157		42.1		98.3		140		141		98.3	
MERCURY									0.30			
NICKEL	29.1		16.4		30.3		28.2		28.2		30.9	
ZINC	253		115		275		313		318		281	
CYANIDE	5.8	U	4.8	U	6.5	U	5.4	U	5.5	U	6.4	U

APPENDIX A

PHOTOS

Illinois Environmental Protection Agency
Bureau of Land

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

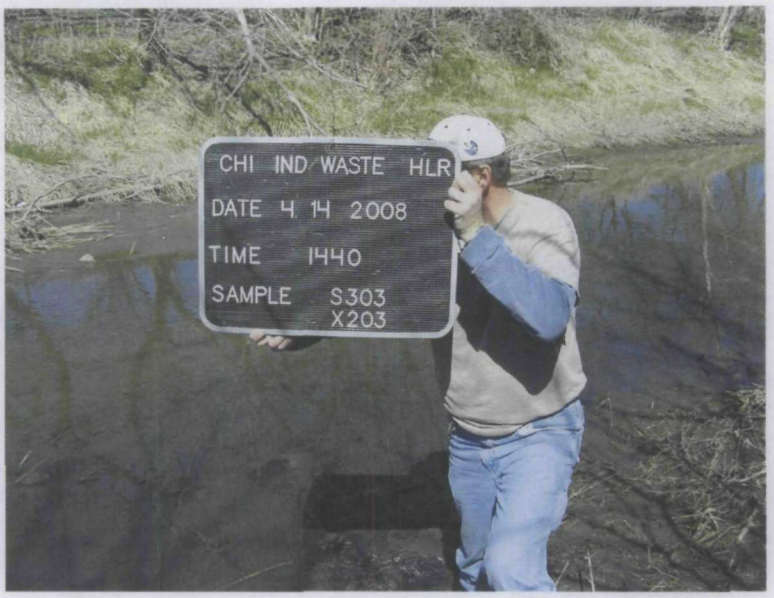
DATE: 04/15/2008
TIME: 09:30 A.M.
PHOTO by: Tony Wasilewski
COMMENTS: Background sediment and surface water sample collected from Stoney Creek. Collected approximately 100 feet up gradiant of the Kostner St bridge.

DATE: 04/14/2008
TIME: 04:00 P. M.
PHOTO by: Tony Wasilewski
COMMENTS: Sample was collected from Stoney Creek adjacent to the north west corner of CIWH. Leachate seep coming from berm with an oily sheen.

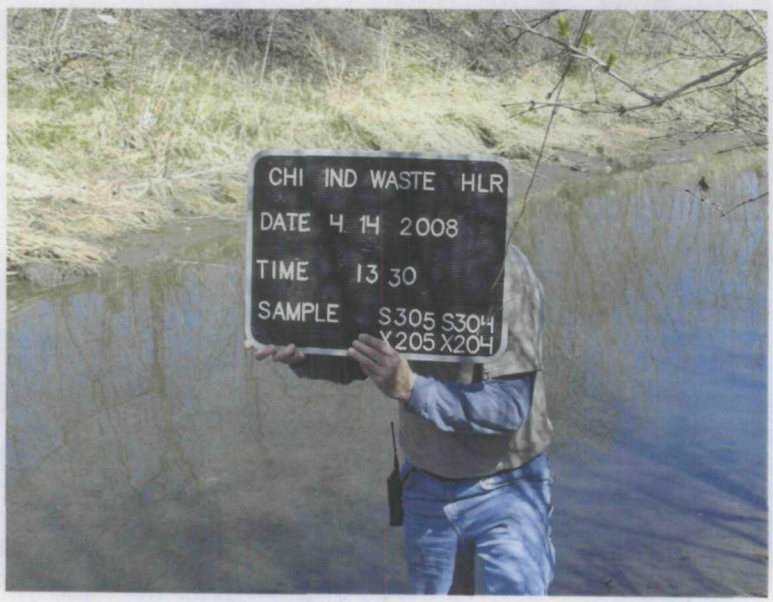
DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/14/2008
TIME: 02:40 PM
PHOTO by: Tony Wasilewski
COMMENTS: Sample was collected from Stoney Creek adjacent to CIWH. Collected from a leachate seep.



DATE: 04/14/2008
TIME: 1:30 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: Sample was collected from Stoney Creek. A duplicate sample was collected from this location as well.



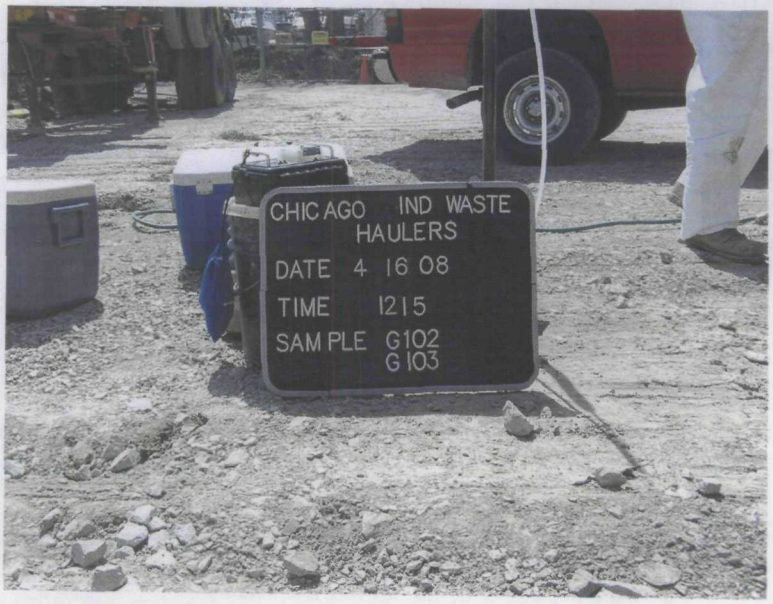
Illinois Environmental Protection Agency
Bureau of Land

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/15/2008
TIME: 10:00 A.M.
PHOTO by: Tony Wasilewski
COMMENTS: G101was screened from 5.5 ft to 9.5 ft. MS/MSD sample collected also.

DATE: 04/16/2008
TIME: 12:15 P.M
PHOTO by: Tony Wasilewski
COMMENTS: Sample G102 and G103.



DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/17/2008
TIME: 10:30 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: G105 was screened from 6-10 feet.

DATE: 04/17/2008
TIME: 01:00 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: Sample was screened from 3-7 feet.

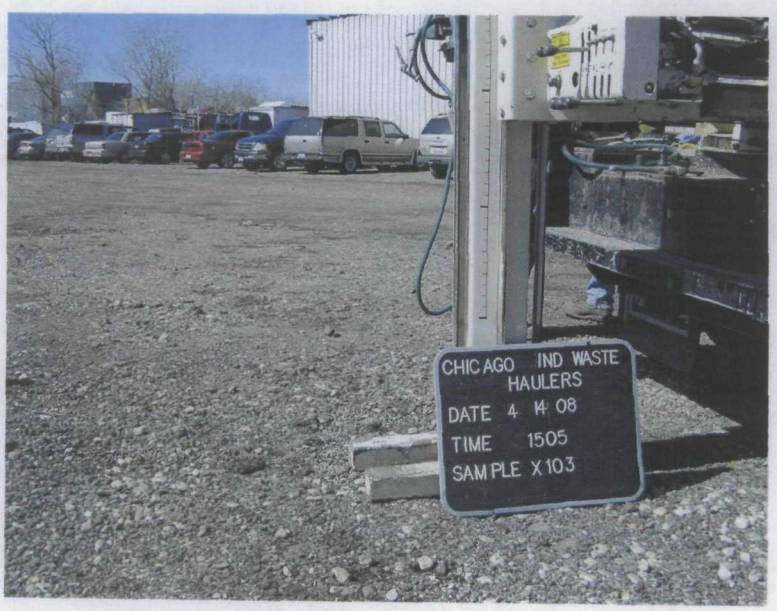
Illinois Environmental Protection Agency
Bureau of Land

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/14/2008
TIME: 01:00 PM
PHOTO by: Tony Wasilewski
COMMENTS: VOC and SVOC were collected from 6-8 ft and inorganic from 8.25-9.5 feet.

14ATE: 04/14/2008
TIME: 02:05 PM
PHOTO by: Tony Wasilewski
COMMENTS: Sample was collected from 7-8 feet.



DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/14/2008
TIME: 04:50 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: Sample was collected from 8-10 feet.

DATE: 04/15/2008
TIME: 11:05 A.M.
PHOTO by: Tony Wasilewski
COMMENTS: SVOC and inorganics were collected from 0-2 feet and VOC was collected from 8-9 feet

Illinois Environmental Protection Agency
Bureau of Land

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/15/2008
TIME: 12:30 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: SVOC and inorganics were collected from 0-2 feet and VOC were collected from 10 feet.

DATE: 04/15/2008
TIME: 1:40 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: Sample was collected from 0-2 feet.

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/15/2008
TIME: 14:30 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: Inorganic were collected from 0-2 feet and SVOC and VOC were collected from 3 feet.

DATE: 04/15/2008
TIME: 06:15 PM
PHOTO by: Tony Wasilewski
COMMENTS: SVOC and VOC were collected from 10-11 feet and inorganic were collected from 1-2 feet.

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/16/2008
TIME: 08:55 PM
PHOTO by: Tony Wasilewski
COMMENTS: VOC and SVOC were collected from 8.5-9.5 feet.

DATE: 04/16/2008
TIME: 09:55 PM
PHOTO by: Tony Wasilewski
COMMENTS: Sample was collected at 6-7 feet.

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/16/2008
TIME: 12:40 P.M.
PHOTO byTonyWasilewski
COMMENTS: Sample collected from 0-3 ft.

DATE: 04/16/2008
TIME: 03:40 PM
PHOTO by: Tony Wasilewski
COMMENTS: Collected VOC and SVOC from 7-8 feet and inorganic from 2-3 feet.

Illinois Environmental Protection Agency
Bureau of Land

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/17/2008
TIME: 09:30 A.M.
PHOTO by: Tony Wasilewski
COMMENTS: VOC and SVOC were collected from 8-9 feet and inorganic from 2-4 feet.

DATE: 04/17/2008
TIME: 11:50 AM
PHOTE: Tony Wasilewski
COMMENTS: Sample was collected from 6-7 feet.

Illinois Environmental Protection Agency
Bureau of Land

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 04/17/2008
TIME: 12:35 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: VOC and SVOC were collected from 3-4 feet and inorganic from 0-2 feet.

DATE: 04/17/2008
TIME: 02:50 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: This was originally collected as a background sample. Did not use. Collected from 1-2 feet.

Illinois Environmental Protection Agency

Bureau of Land

DIGITAL PHOTOGRAPHS

Chicago Industrial Waste Haulers
Alsip, Illinois - Cook County

DATE: 06/25/2008
TIME: 11:45 A.M.
PHOTO by: Tony Wasilewski
COMMENTS: Collected from 8- 10 inches in Prairie View Park.

DATE: 06/25/2008
TIME: 12:00 P.M.
PHOTO by: Tony Wasilewski
COMMENTS: Collected from 8-10 inches in Prairie View Park.

APPENDIX B

TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane	1,2-Dichloropropane
Bromomethane	cis-1,3-Dichloropropene
Vinyl Chlorde	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroehtene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
2-Butanone	Toluene
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane	2,4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis (2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether
Hexachlorobutadiene	Anthracene
2-Methylnaphthalene	Di-n-Butylphthalate

1,2,4-Trichlorobenzene	Fluoranthene
Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl)Phthalate
bis(2-chloroethoxy)Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)Anthracene
2-Chloronaphthalene	3-3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b)Fluoranthene
3-Nitroaniline	Benzo(k)Fluoranthene
Acenaphthene	Benzo(a)Pyrene
Dibenzofuran	Ideno(1,2,3-cd)Pyrene
Dimethyl Phthalate	Dibenz(a,h)Anthracene
2,6-Dinitrotoluene	Benzo(g,h,i)Perylene
Fluorene	1,2-Dichlorobenzene
4-Nitroaniline	1,3-Dichlorobenzene
4-Chlorophenyl-phenylether	1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid	2,4,6-Trichlorophenol
Phenol	2,4,5-Trichlorophenol
2-Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2,4-Dinitrophenol
2-Methylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2,4-Dichlorophenol	

Pesticide/PCB Target Compounds

alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chlordane
Heptachlor	gamma-Chlordane
Aldrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan I	Aroclor-1221
4,4'-DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4,4'-DDT	

Inorganic Target Compounds

Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Barium	Potassium
Beryllium	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Thallium
Cobolt	Vanadium
Copper	Zinc
Iron	Cyanide
Lead	Sulfide
Magnesium	

APPENDIX C

MCL's

EPA National Primary Drinking Water Standards

	Contaminant	MCL or TT[1] (mg/L)[2]	Potential health effects from exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal
OC	Acrylamide	TT[8]	Nervous system or blood problems;	Added to water during sewage/wastewater increased risk of cancer treatment	zero
OC	Alachlor	0.002	Eye, liver, kidney or spleen problems; anemia; increased risk of cancer	Runoff from herbicide used on row crops	zero
R	Alpha particles	15 picocuries per Liter (pCi/L)	Increased risk of cancer	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation	zero
IOC	Antimony	0.006	Increase in blood cholesterol; decrease in blood sugar	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder	0.006
IOC	Arsenic	0.010 as of 1/23/06	Skin damage or problems with circulatory systems, and may have increased risk of getting cancer	Erosion of natural deposits; runoff from orchards, runoff from glass & electronics production wastes	0
IOC	Asbestos (fibers >10 micrometers)	7 million fibers per Liter (MFL)	Increased risk of developing benign intestinal polyps	Decay of asbestos cement in water mains; erosion of natural deposits	7 MFL
OC	Atrazine	0.003	Cardiovascular system or reproductive problems	Runoff from herbicide used on row crops	0.003
IOC	Barium	2	Increase in blood pressure	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	2
OC	Benzene	0.005	Anemia; decrease in blood platelets; increased risk of cancer	Discharge from factories; leaching from gas storage tanks and landfills	zero
OC	Benzo(a)pyrene (PAHs)	0.0002	Reproductive difficulties; increased risk of cancer	Leaching from linings of water storage tanks and distribution lines	zero
IOC	Beryllium	0.004	Intestinal lesions	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries	0.004
R	Beta particles and photon emitters	4 millirems per year	Increased risk of cancer	Decay of natural and man-made deposits of certain minerals that are radioactive and may emit forms of radiation known as photons and beta radiation	zero
DBP	Bromate	0.010	Increased risk of cancer	Byproduct of drinking water disinfection	zero
IOC	Cadmium	0.005	Kidney damage	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints	0.005
OC	Carbofuran	0.04	Problems with blood, nervous system, or reproductive system	Leaching of soil fumigant used on rice and alfalfa	0.04
OC	Carbon tetrachloride	0.005	Liver problems; increased risk of cancer	Discharge from chemical plants and other industrial activities	zero
D	Chloramines (as Cl_2)	MRDL=4.0[1]	Eye/nose irritation; stomach discomfort, anemia	Water additive used to control microbes	MRDLG=4[1]

LEGEND

D Dinsinfectant
DBP Disinfection Byproduct
IOC Inorganic Chemical
M Microorganism
OC Organic Chemical
R Radionuclides

	Contaminant	MCL or TT[1] (mg/L)[2]	Potential health effects from exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal
OC	Chlordane	0.002	Liver or nervous system problems; increased risk of cancer	Residue of banned termiticide	zero
D	Chlorine (as Cl_2)	MRDL=4.0[1]	Eye/nose irritation; stomach discomfort	Water additive used to control microbes	MRDLG=4[1]
D	Chlorine dioxide (as ClO_2)	MRDL=0.8[1]	Anemia; infants & young children: nervous system effects	Water additive used to control microbes	MRDLG=0.8[1]
DBP	Chlorite	1.0	Anemia; infants & young children: nervous system effects	Byproduct of drinking water disinfection	0.8
OC	Chlorobenzene	0.1	Liver or kidney problems	Discharge from chemical and agricultural chemical factories	0.1
IOC	Chromium (total)	0.1	Allergic dermatitis	Discharge from steel and pulp mills; erosion of natural deposits	0.1
IOC	Copper	TT[7]; Action Level = 1.3	Short term exposure: Gastrointestinal distress. Long term exposure: Liver or kidney damage. People with Wilson's Disease should consult their personal doctor if the amount of copper in their water exceeds the action level	Corrosion of household plumbing systems; erosion of natural deposits	1.3
M	*Cryptosporidium*	TT[3]	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste	zero
IOC	Cyanide (as free cyanide)	0.2	Nerve damage or thyroid problems	Discharge from steel/metal factories; discharge from plastic and fertilizer factories	0.2
OC	2,4-D	0.07	Kidney, liver, or adrenal gland problems	Runoff from herbicide used on row crops	0.07
OC	Dalapon	0.2	Minor kidney changes	Runoff from herbicide used on rights of way	0.2
OC	1,2-Dibromo-3-chloropropane (DBCP)	0.0002	Reproductive difficulties; increased risk of cancer	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards	zero
OC	o-Dichlorobenzene	0.6	Liver, kidney, or circulatory system problems	Discharge from industrial chemical factories	0.6
OC	p-Dichlorobenzene	0.075	Anemia; liver, kidney or spleen damage; changes in blood	Discharge from industrial chemical factories	0.075
OC	1,2-Dichloroethane	0.005	Increased risk of cancer	Discharge from industrial chemical factories	zero
OC	1,1-Dichloroethylene	0.007	Liver problems	Discharge from industrial chemical factories	0.007
OC	cis-1,2-Dichloroethylene	0.07	Liver problems	Discharge from industrial chemical factories	0.07
OC	trans-1,2-Dichloroethylene	0.1	Liver problems	Discharge from industrial chemical factories	0.1
OC	Dichloromethane	0.005	Liver problems; increased risk of cancer	Discharge from drug and chemical factories	zero
OC	1,2-Dichloropropane	0.005	Increased risk of cancer	Discharge from industrial chemical factories	zero
OC	Di(2-ethylhexyl) adipate	0.4	Weight loss, live problems, or possible reproductive difficulties	Discharge from chemical factories	0.4
OC	Di(2-ethylhexyl) phthalate	0.006	Reproductive difficulties; liver problems; increased risk of cancer	Discharge from rubber and chemical factories	zero
OC	Dinoseb	0.007	Reproductive difficulties	Runoff from herbicide used on soybeans and vegetables	0.007
OC	Dioxin (2,3,7,8-TCDD)	0.00000003	Reproductive difficulties; increased risk of cancer	Emissions from waste incineration and other combustion; discharge from chemical factories	zero
OC	Diquat	0.02	Cataracts	Runoff from herbicide use	0.02
OC	Endothall	0.1	Stomach and intestinal problems	Runoff from herbicide use	0.1

LEGEND

D Dinsinfectant

DBP Disinfection Byproduct

IOC Inorganic Chemical

M Microorganism

OC Organic Chemical

R Radionuclides

	Contaminant	MCL or TT[1] (mg/L)[2]	Potential health effects from exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal
OC	Endrin	0.002	Liver problems	Residue of banned insecticide	0.002
OC	Epichlorohydrin	TT[8]	Increased cancer risk, and over a long period of time, stomach problems	Discharge from industrial chemical factories; an impurity of some water treatment chemicals	zero
OC	Ethylbenzene	0.7	Liver or kidneys problems	Discharge from petroleum refineries	0.7
OC	Ethylene dibromide	0.00005	Problems with liver, stomach, reproductive system, or kidneys; increased risk of cancer	Discharge from petroleum refineries	zero
IOC	Fluoride	4.0	Bone disease (pain and tenderness of the bones); Children may get mottled teeth	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories	4.0
M	*Giardia lamblia*	TT[3]	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste	zero
OC	Glyphosate	0.7	Kidney problems; reproductive difficulties	Runoff from herbicide use	0.7
DBP	Haloacetic acids (HAA5)	0.060	Increased risk of cancer	Byproduct of drinking water disinfection	n/a[6]
OC	Heptachlor	0.0004	Liver damage; increased risk of cancer	Residue of banned termiticide	zero
OC	Heptachlor epoxide	0.0002	Liver damage; increased risk of cancer	Breakdown of heptachlor	zero
M	Heterotrophic plate count (HPC)	TT[3]	HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.	HPC measures a range of bacteria that are naturally present in the environment	n/a
OC	Hexachlorobenzene	0.001	Liver or kidney problems; reproductive difficulties; increased risk of cancer	Discharge from metal refineries and agricultural chemical factories	zero
OC	Hexachlorocyclopentadiene	0.05	Kidney or stomach problems	Discharge from chemical factories	0.05
IOC	Lead	TT[7]; Action Level = 0.015	Infants and children: Delays in physical or mental development; children could show slight deficits in attention span and learning abilities; Adults: Kidney problems; high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits	zero
M	*Legionella*	TT[3]	Legionnaire's Disease, a type of pneumonia	Found naturally in water; multiplies in heating systems	zero
OC	Lindane	0.0002	Liver or kidney problems	Runoff/leaching from insecticide used on cattle, lumber, gardens	0.0002
IOC	Mercury (inorganic)	0.002	Kidney damage	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands	0.002
OC	Methoxychlor	0.04	Reproductive difficulties	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock	0.04
IOC	Nitrate (measured as Nitrogen)	10	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	10
IOC	Nitrite (measured as Nitrogen)	1	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	1

LEGEND

D Dinsinfectant
DBP Disinfection Byproduct
IOC Inorganic Chemical
M Microorganism
OC Organic Chemical
R Radionuclides

	Contaminant	MCL or TT[1] (mg/L)[2]	Potential health effects from exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal
OC	Oxamyl (Vydate)	0.2	Slight nervous system effects	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes	0.2
OC	Pentachlorophenol	0.001	Liver or kidney problems; increased cancer risk	Discharge from wood preserving factories	zero
OC	Picloram	0.5	Liver problems	Herbicide runoff	0.5
OC	Polychlorinated biphenyls (PCBs)	0.0005	Skin changes; thymus gland problems; immune deficiencies; reproductive or nervous system difficulties; increased risk of cancer	Runoff from landfills; discharge of waste chemicals	zero
R	Radium 226 and Radium 228 (combined)	5 pCi/L	Increased risk of cancer	Erosion of natural deposits	zero
IOC	Selenium	0.05	Hair or fingernail loss; numbness in fingers or toes; circulatory problems	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines	0.05
OC	Simazine	0.004	Problems with blood	Herbicide runoff	0.004
OC	Styrene	0.1	Liver, kidney, or circulatory system problems	Discharge from rubber and plastic factories; leaching from landfills	0.1
OC	Tetrachloroethylene	0.005	Liver problems; increased risk of cancer	Discharge from factories and dry cleaners	zero
IOC	Thallium	0.002	Hair loss; changes in blood; kidney, intestine, or liver problems	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories	0.0005
OC	Toluene	1	Nervous system, kidney, or liver problems	Discharge from petroleum factories	1
M	Total Coliforms (including fecal coliform and *E. coli*)	5.0%[4]	Not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present[5]	Coliforms are naturally present in the environment as well as feces; fecal coliforms and *E. coli* only come from human and animal fecal waste.	zero
DBP	Total Trihalomethanes (TTHMs)	0.10 0.080 after 12/31/03	Liver, kidney or central nervous system problems; increased risk of cancer	Byproduct of drinking water disinfection	n/a[6]
OC	Toxaphene	0.003	Kidney, liver, or thyroid problems; increased risk of cancer	Runoff/leaching from insecticide used on cotton and cattle	zero
OC	2,4,5-TP (Silvex)	0.05	Liver problems	Residue of banned herbicide	0.05
OC	1,2,4-Trichlorobenzene	0.07	Changes in adrenal glands	Discharge from textile finishing factories	0.07
OC	1,1,1-Trichloroethane	0.2	Liver, nervous system, or circulatory problems	Discharge from metal degreasing sites and other factories	0.20
OC	1,1,2-Trichloroethane	0.005	Liver, kidney, or immune system problems	Discharge from industrial chemical factories	0.003
OC	Trichloroethylene	0.005	Liver problems; increased risk of cancer	Discharge from metal degreasing sites and other factories	zero
M	Turbidity	TT[3]	Turbidity is a measure of the cloudiness of water. It is used to indicate water quality and filtration effectiveness (e.g., whether disease-causing organisms are present). Higher turbidity levels are often associated with higher levels of disease-causing micro-organisms such as viruses, parasites and some bacteria. These organisms can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.	Soil runoff	n/a
R	Uranium	30 ug/L as of 12/08/03	Increased risk of cancer, kidney toxicity	Erosion of natural deposits	zero

LEGEND

D Dinsinfectant

DBP Disinfection Byproduct

IOC Inorganic Chemical

M Microorganism

OC Organic Chemical

R Radionuclides

	Contaminant	MCL or TT[1] (mg/L)[2]	Potential health effects from exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal
OC	Vinyl chloride	0.002	Increased risk of cancer	Leaching from PVC pipes; discharge from plastic factories	zero
M	Viruses (enteric)	TT[3]	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste	zero
OC	Xylenes (total)	10	Nervous system damage	Discharge from petroleum factories; discharge from chemical factories	10

NOTES

1 Definitions

- Maximum Contaminant Level Goal (MCLG)—The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.
- Maximum Contaminant Level (MCL)—The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.
- Maximum Residual Disinfectant Level Goal (MRDLG)—The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Maximum Residual Disinfectant Level (MRDL)—The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Treatment Technique (TT)—A required process intended to reduce the level of a contaminant in drinking water.

2 Units are in milligrams per liter (mg/L) unless otherwise noted. Milligrams per liter are equivalent to parts per million (ppm).

3 EPA's surface water treatment rules require systems using surface water or ground water under the direct influence of surface water to (1) disinfect their water, and (2) filter their water or meet criteria for avoiding filtration so that the following contaminants are controlled at the following levels:

- *Cryptosporidium* (as of 1/1/02 for systems serving >10,000 and 1/14/05 for systems serving <10,000) 99% removal.
- *Giardia lamblia*: 99.9% removal/inactivation
- Viruses: 99.99% removal/inactivation
- *Legionella:* No limit, but EPA believes that if *Giardia* and viruses are removed/inactivated, *Legionella* will also be controlled.
- Turbidity: At no time can turbidity (cloudiness of water) go above 5 nephelolometric turbidity units (NTU); systems that filter must ensure that the turbidity go no higher than 1 NTU (0.5 NTU for conventional or direct filtration) in at least 95% of the daily samples in any month. As of January 1, 2002, for systems servicing >10,000, and January 14, 2005, for systems servicing <10,000, turbidity may never exceed 1 NTU, and must not exceed 0.3 NTU in 95% of daily samples in any month.
- HPC: No more than 500 bacterial colonies per milliliter
- Long Term 1 Enhanced Surface Water Treatment (Effective Date: January 14, 2005); Surface water systems or (GWUDI) systems serving fewer than 10,000 people must comply with the applicable Long Term 1 Enhanced Surface Water Treatment Rule provisions (e.g. turbidity standards, individual filter monitoring, *Cryptosporidium* removal requirements, updated watershed control requirements for unfiltered systems).
- Filter Backwash Recycling: The Filter Backwash Recycling Rule requires systems that recycle to return specific recycle flows through all processes of the system's existing conventional or direct filtration system or at an alternate location approved by the state.

4 No more than 5.0% samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or *E. coli* if two consecutive TC-positive samples, and one is also positive for *E. coli* fecal coliforms, system has an acute MCL violation.

5 Fecal coliform and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Disease-causing microbes (pathogens) in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms. These pathogens may pose a special health risk for infants, young children, and people with severely compromised immune systems.

6 Although there is no collective MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants:

- Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (0.3 mg/L)
- Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (0.06 mg/L)

7 Lead and copper are regulated by a Treatment Technique that requires systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps. For copper, the action level is 1.3 mg/L, and for lead is 0.015 mg/L.

8 Each water system must certify, in writing, to the state (using third-party or manufacturers certification) that when it uses acrylamide and/or epichlorohydrin to treat water, the combination (or product) of dose and monomer level does not exceed the levels specified, as follows: Acrylamide = 0.05% dosed at 1 mg/L (or equivalent); Epichlorohydrin = 0.01% dosed at 20 mg/L (or equivalent).

LEGEND

D Dinsinfectant
DBP Disinfection Byproduct
IOC Inorganic Chemical
M Microorganism
OC Organic Chemical
R Radionuclides

APPENDIX D

Boring Logs

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

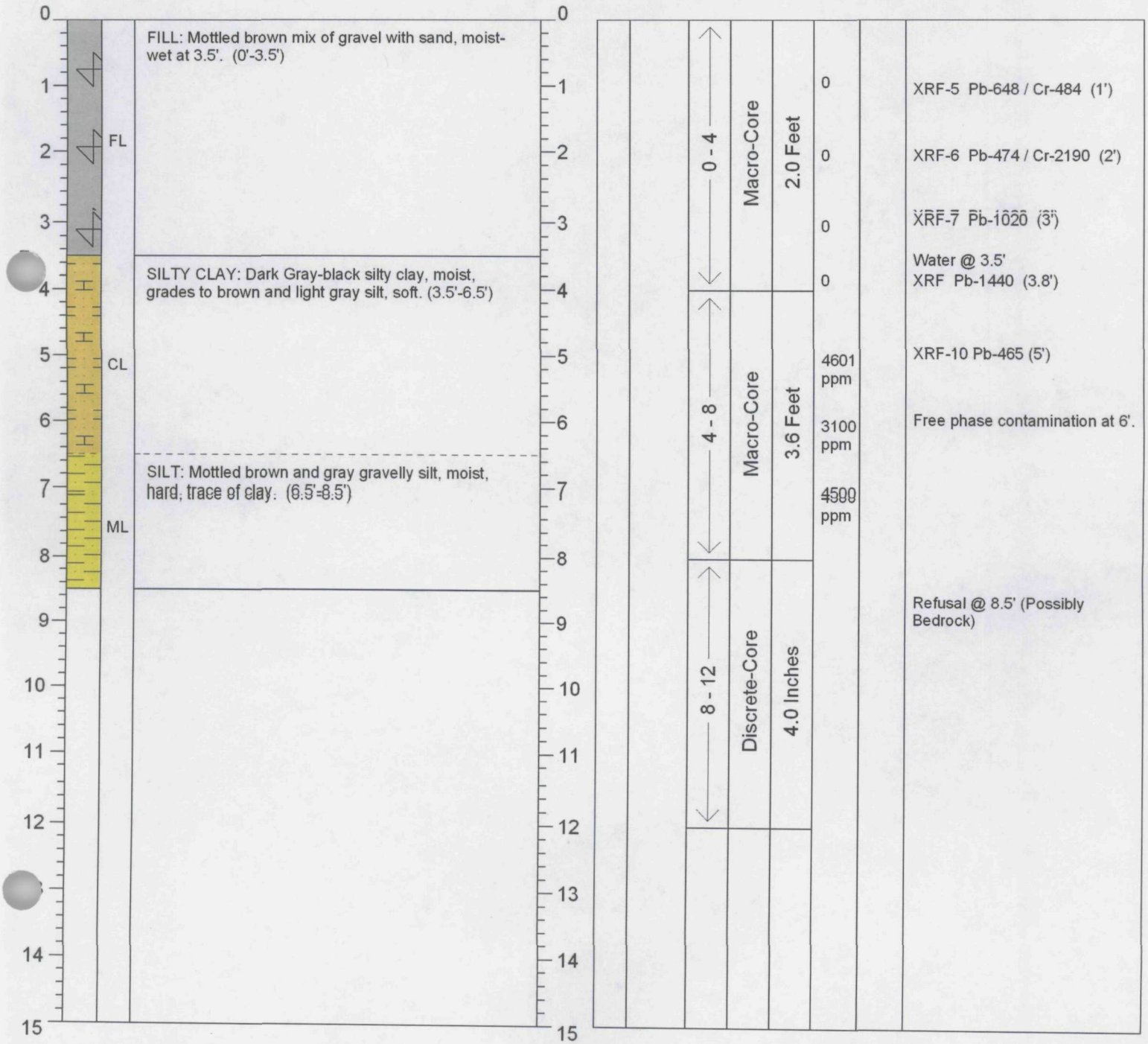
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-101

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/14/08 **Finish** 4/14/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: By trailers, to left of entrance **Completion Depth:** 8.5 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-102

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/14/08 **Finish** 4/14/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 9.5 Feet

Logged By: James M. Salch

Depth (ft)	Lithology	USCS	Description
0			FILL: Mix of sand, gravel, silt and clayey material. (0'-6.5')
6.5		ML	CLAYEY SILT: Dark gray-black clayey silt, moist.
8			Grades to mottled brown gravely silt, hard, with clay.
9.5			

Depth (ft)	Sample Depth	Sample Number	Sampling Interval	Sample Type	Sample Recovery	TVA Readings PID	TVA Readings FID	Remarks
0			0 - 4	Macro-Core	2.6 Feet			
4			4 - 8	Macro-Core	2.4 Feet			
8			8 - 12	Discrete-Core	1.6 Feet			Strange fuel-like odor-sweet,pungent. Possible Free Phase Contamination. Refusal @ 9.5'

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

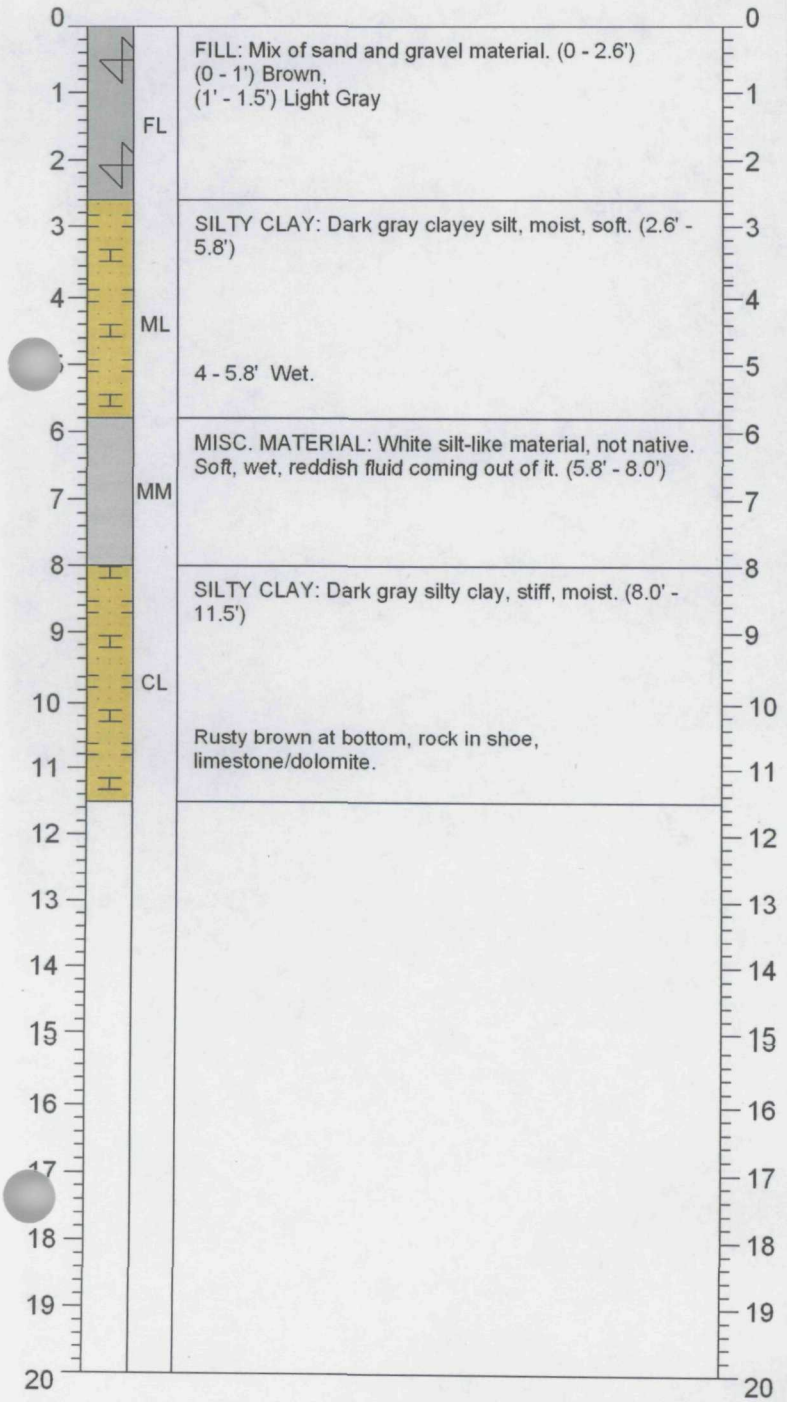
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-103

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/14/08 **Finish** 4/14/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 11.5 Feet

Logged By: James M. Salch



Depth (ft)	Description
0 - 2.6	FILL: Mix of sand and gravel material. (0 - 2.6') (0 - 1') Brown, (1' - 1.5') Light Gray
2.6 - 5.8	SILTY CLAY: Dark gray clayey silt, moist, soft. (2.6' - 5.8') 4 - 5.8' Wet.
5.8 - 8.0	MISC. MATERIAL: White silt-like material, not native. Soft, wet, reddish fluid coming out of it. (5.8' - 8.0')
8.0 - 11.5	SILTY CLAY: Dark gray silty clay, stiff, moist. (8.0' - 11.5') Rusty brown at bottom, rock in shoe, limestone/dolomite.

Depth (ft)	Sample Depth	Sample Number	Sampling Interval	Sample Type	Sample Recovery	TVA Readings PID	TVA Readings FID	Remarks
0 - 4			0 - 4	Macro-Core	3.4 Feet			4 - 8 Core wet. Very soft 4 - 11'.
4 - 8			4 - 8	Macro-Core	2.0 Feet			Soft, Organic odor.
8 - 12			8 - 12	Discrete-Core	1.7 Feet			White material may actually turn pink when exposed to air. Refusal @ 11.5'

Start Pumping @ 9:25
Screen: 5.5' - 9.5'
2.5 gallons removed

Time	Temp	pH	Conduc
9:36	8.0 C	6.67	3.05
9:41	8.0 C	6.75	3.08
9:47	8.0 C	6.79	3.08
9:52	8.1 C	6.82	3.08
9:56	8.1 C	6.87	3.07

Remarks:

@ 9:36, Cloudy gray - fuel odor - sheen

@ 9:41, Slightly cloudy gray, clearing

@ 9:47, Slightly cloudy gray, clearing

@ 9:52, Slightly cloudy gray, clearing

@ 9:56, Slightly cloudy gray, clearing

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

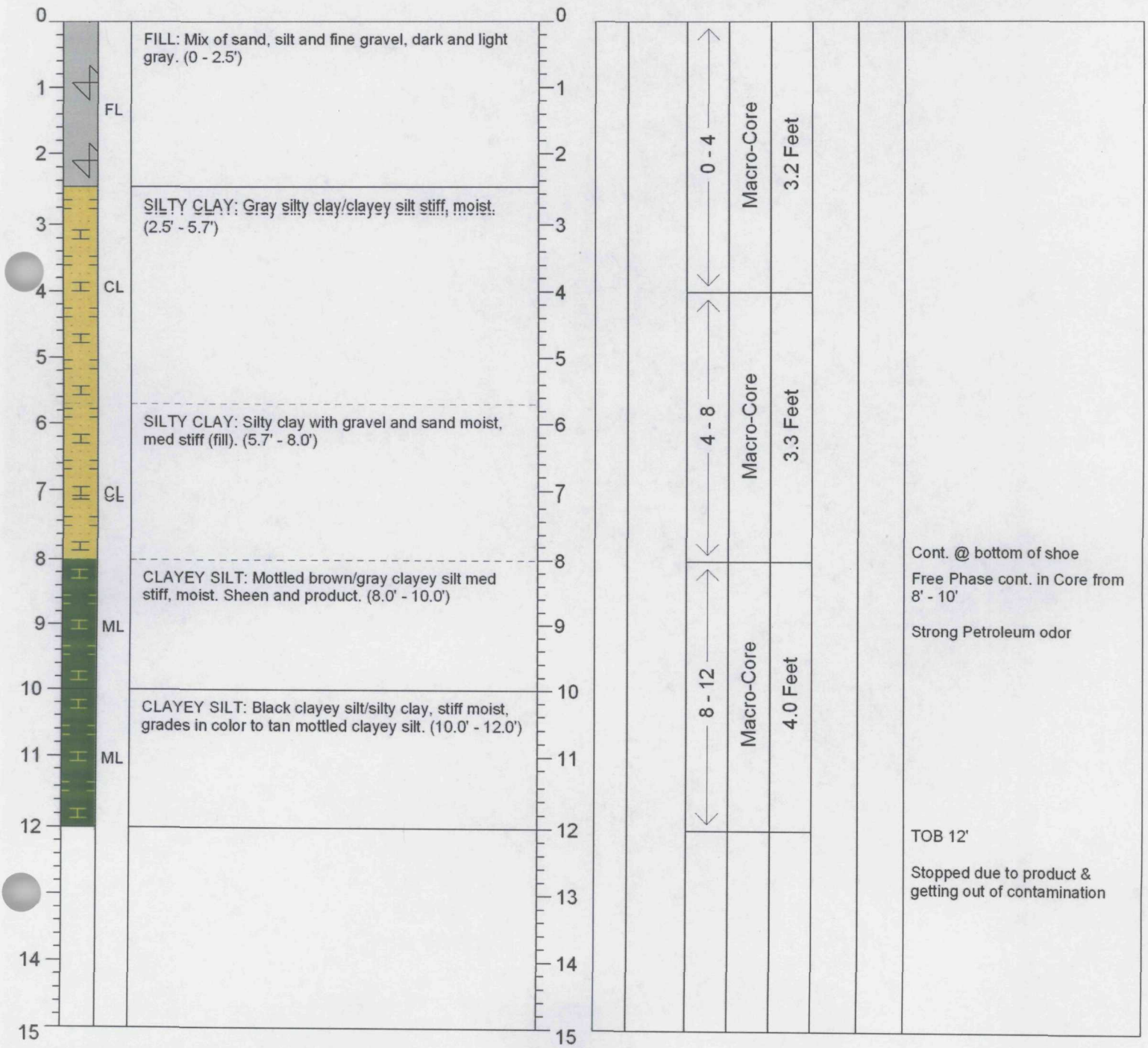
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-104

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/14/08 **Finish** 4/14/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 12 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

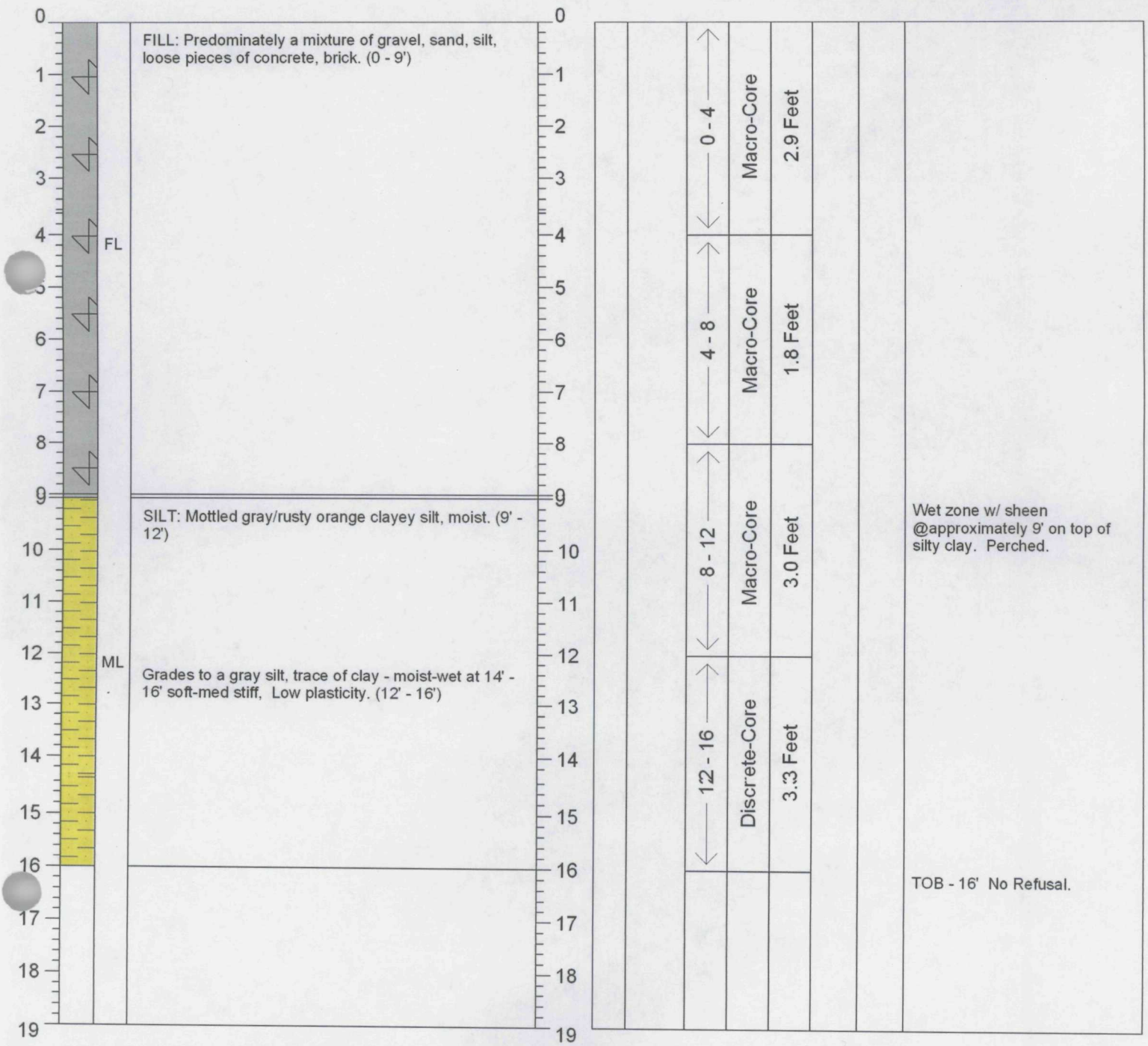
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-105

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/15/08 **Finish** 4/15/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 16 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

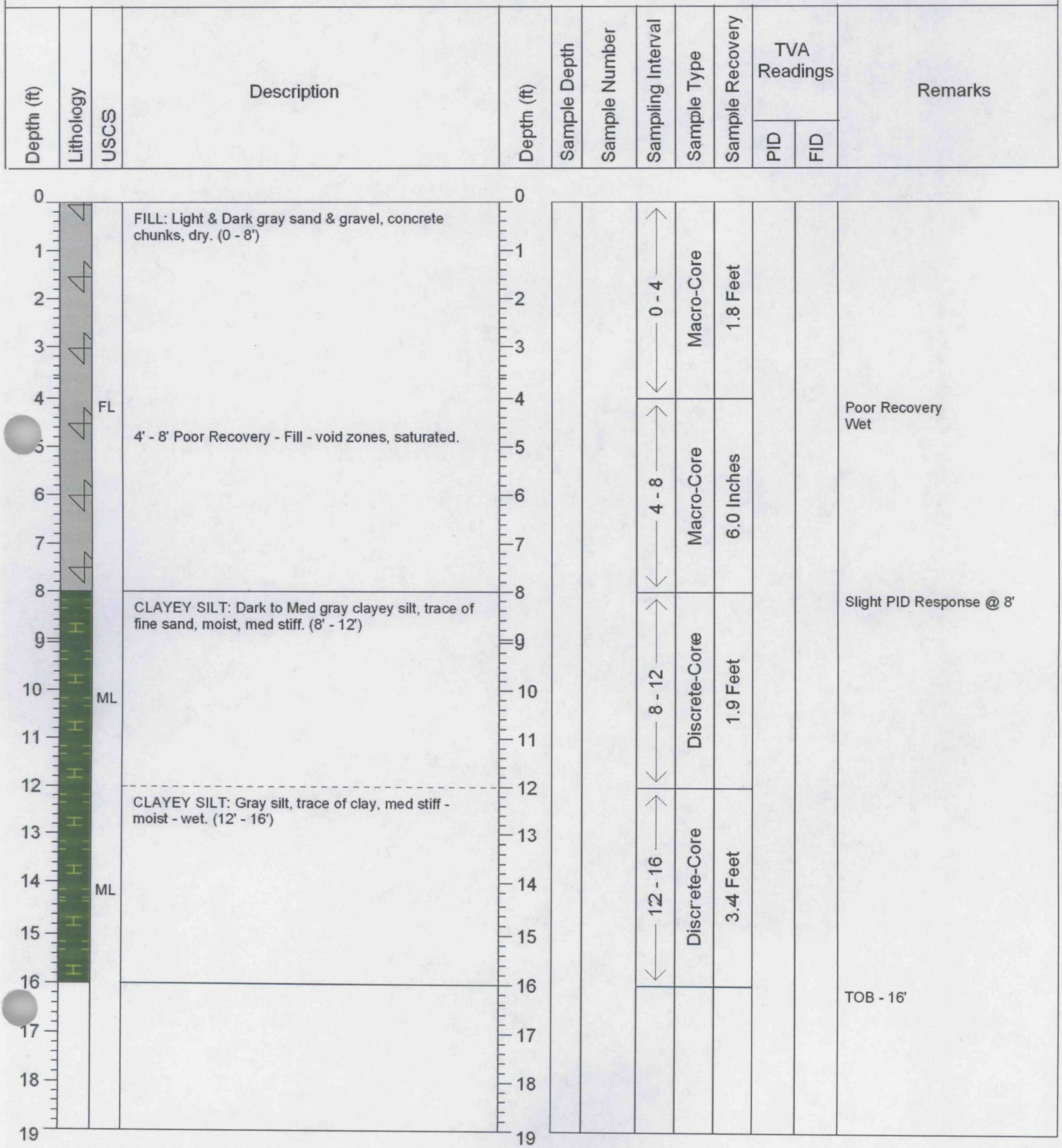
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-106

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/15/08 **Finish** 4/15/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 16 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

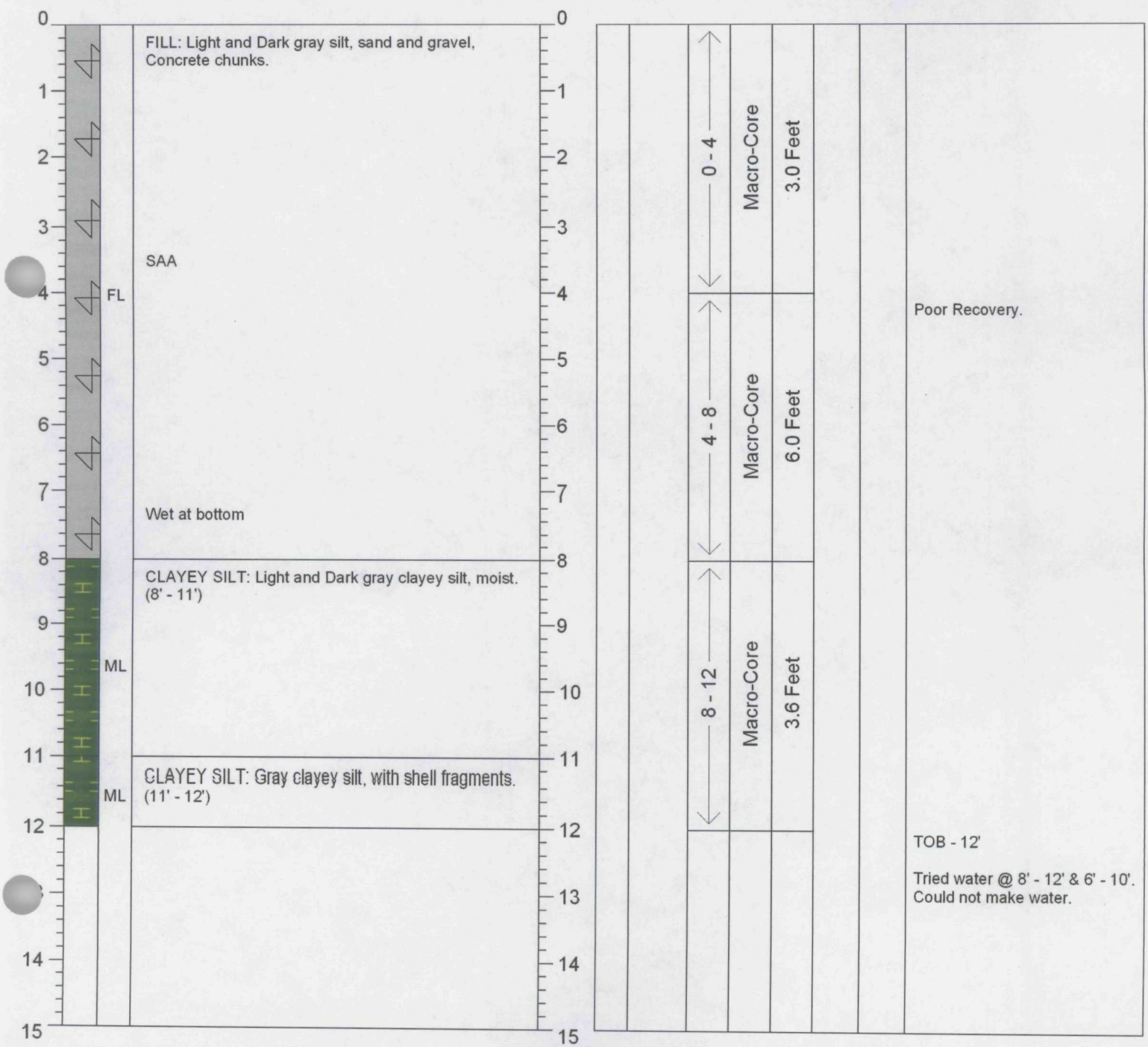
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-107

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/15/08 **Finish** 4/15/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 12.0 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-108

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/15/08 **Finish** 4/15/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 12.0 Feet

Logged By: James M. Salch

Depth (ft)	Lithology	USCS	Description	Depth (ft)	Sample Depth	Sample Number	Sampling Interval	Sample Type	Sample Recovery	TVA Readings PID	TVA Readings FID	Remarks
0 - 12		FL	FILL: White & Gray sand & gravel, some silt and clay, dry, concrete pieces, brick fragments. SAA	0 - 8			0 - 4	Macro-Core	3.3 Feet			Poor Recovery.
8 - 12		ML	CLAYEY SILT: Mottled gray & orange-brown clayey silt, moist-wet, med stiff, ox. staining. (8' - 12')	8 - 12			4 - 8	Macro-Core	1.7 Feet			Water in cone 8' - 12'. Perched on top of clay.
							8 - 12	Macro-Core	2.9 Feet			TOB - 12' No defined contamination zone.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

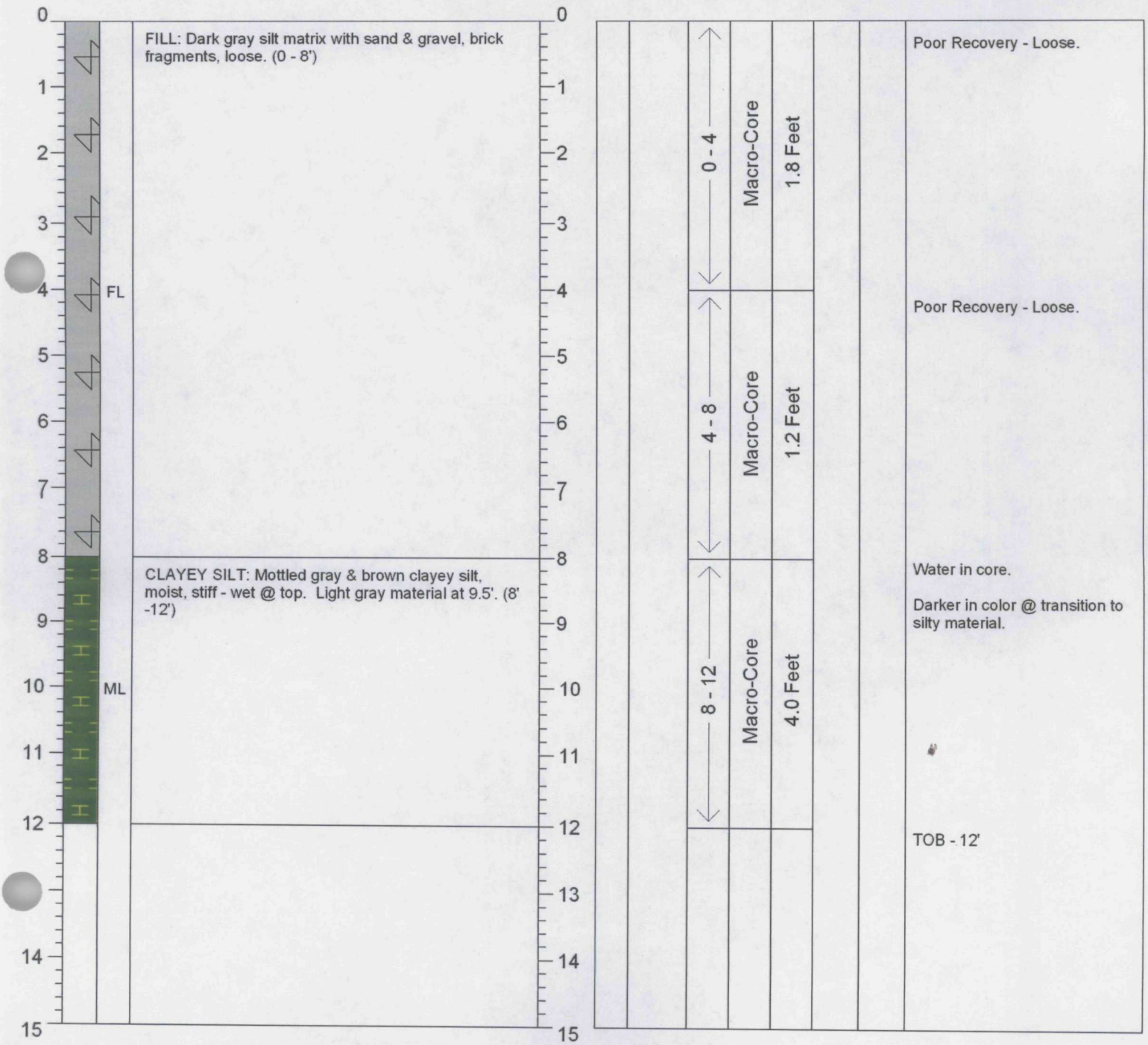
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-109

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/15/08 **Finish** 4/15/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 12.0 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

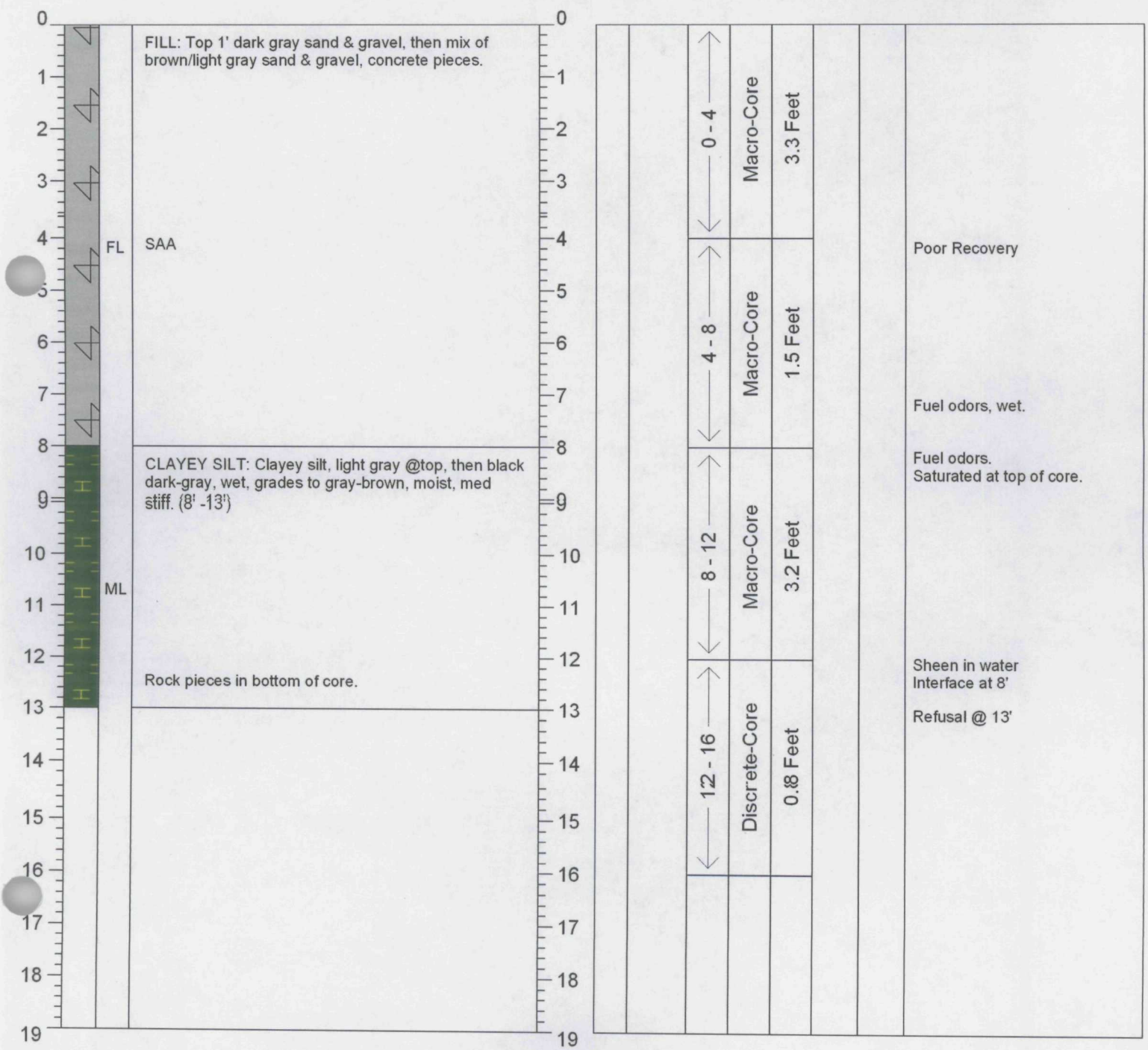
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-110

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/15/08 **Finish** 4/15/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 13 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

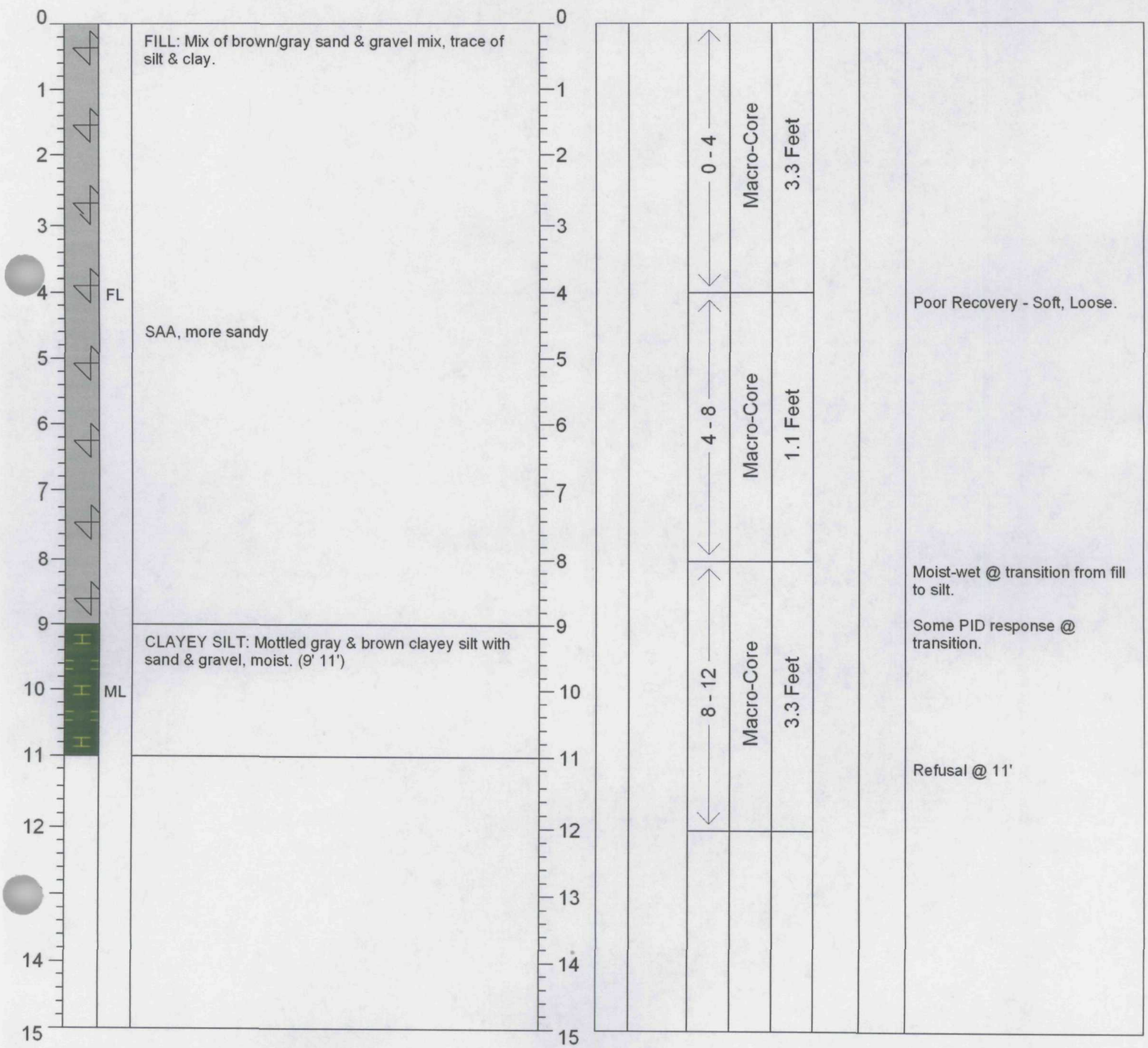
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-111

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/16/08 **Finish** 4/16/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 11.0 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

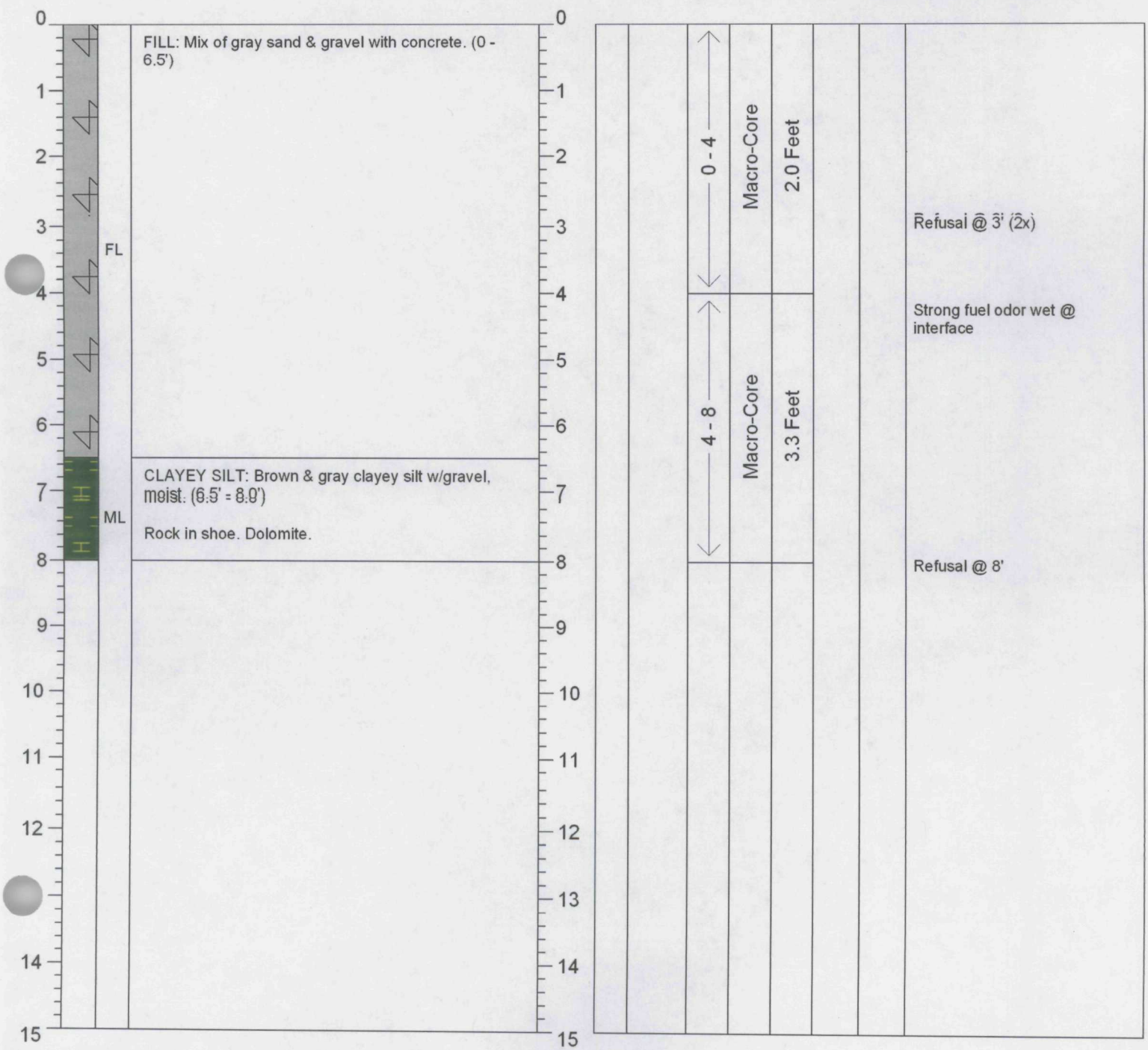
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-112

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/16/08 **Finish** 4/16/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 8.0 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-113

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/16/08 **Finish** 4/16/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 8.0 Feet

Logged By: James M. Salch

Depth (ft)	Lithology	USCS	Description	Depth (ft)	Sample Depth	Sample Number	Sampling Interval	Sample Type	Sample Recovery	TVA Readings PID	TVA Readings FID	Remarks
0		FL	FILL: Gray sand & gravel. (0 - 1')	0			0 - 4	Macro-Core	3.0 Feet			
1			CLAYEY SILT: Gray clayey silt, moist, soft. (1' -8')	1								
2				2								
3				3								
4		ML		4			4 - 8	Macro-Core	1.3 Feet			Fuel odor - wet PID Response No Samples
5				5								
6				6								
7			w/ rock pieces	7								
8				8								Refusal @ 8'
9				9								
10				10								
11				11								
12				12								
13				13								
14				14								
15				15								

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-114

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/16/08 **Finish** 4/16/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 7.0 Feet

Logged By: James M. Salch

Depth (ft)	Lithology	USCS	Description
0 - 3		FL	FILL: Mix of sand and gravel with zones of silty clay, dry. (0 - 2.8')
3 - 4		ML	SILTY CLAY: Mottled dark gray & brown, silty clay, moist-stiff, oxidation staining. (2.8' - 3.5')
4 - 5		SP	SAND: Mottled gray and brown sand, moist - wet. (3.5' - 5.0')
5 - 7		ML	SILTY CLAY: Gray & brwon silty clay, stiff pieces of rock, moist - wet. (5.0' - 7.0')

Depth (ft)	Sample Depth	Sample Number	Sampling Interval	Sample Type	Sample Recovery	TVA Readings PID	TVA Readings FID	Remarks
0 - 4			0 - 4	Macro-Core	3.6 Feet			No odors
4 - 8			4 - 8	Macro-Core	2.8 Feet			Refusal @ 7'

Start pumping @ 11:50

Time	Temp	pH	Cond
11:50	10.4 C	6.96	2.31
11:55	9.7 C	7.02	2.32
12:00	9.9 C	7.07	2.30

Remarks:

@11:50, Gray-brown cloudy - no odor

@ 11:55, Slightly cloudy - clearing

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-116

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/16/08 **Finish** 4/16/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 14 Feet

Logged By: James M. Salch

Depth (ft)	Lithology	USCS	Description	Depth (ft)	Sample Depth	Sample Number	Sampling Interval	Sample Type	Sample Recovery	TVA Readings PID	TVA Readings FID	Remarks
0				0								
1		FL	FILL: Light gray gravel. (0 - 1.2')	1								
2			FILL: Mottled brown silty clay stiff trace of slag, concrete fill. (1.2' - 6.0')	2			0 - 4	Macro-Core	3.4 Feet			
3				3								
4		FL		4								
5				5			4 - 8	Macro-Core	2.8 Feet			
6			CLAYEY SILT: Dark gray-black clayey silt moist, med stiff.	6								
7				7								
8			Grades to mottled brown & gray clayey silt, med stiff, moist.	8								Wet @ 8' - Top of Cone
9				9			8 - 12	Macro-Core	2.7 Feet			
10		ML		10								
11				11								
12			Mostly gray clayey silt, moist med stiff.	12								No Odors
13				13								
14				14			12 - 16	Discrete-Core	1.7 Feet			Refusal @ 14.0'
15				15								Screen 7' - 11'
16				16								
17				17								
18				18								
19				19								

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

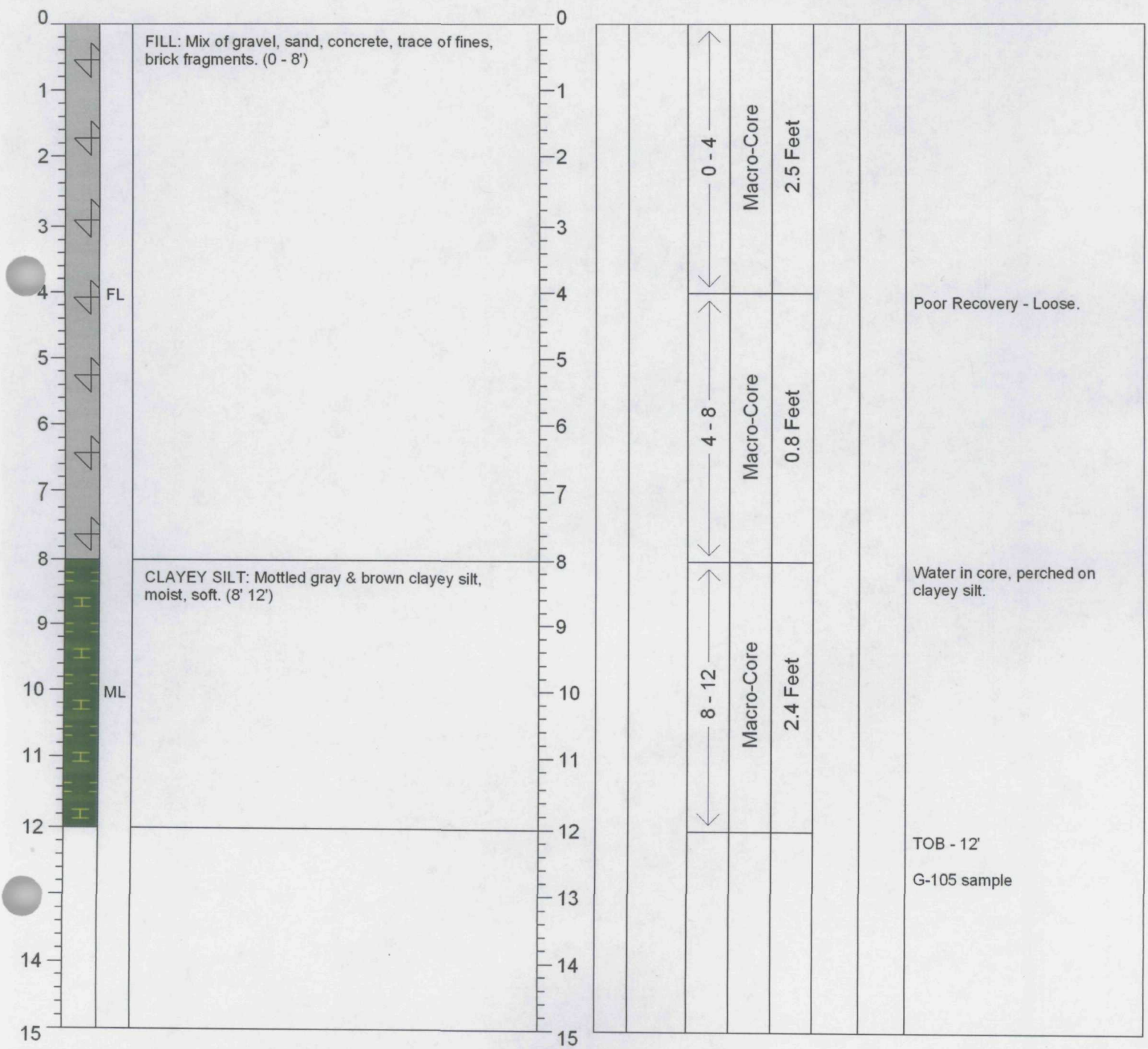
Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-117

GPS Coordinates: Northing Unspecified **Easting** Unspecified **Date: Start** 4/17/08 **Finish** 4/17/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: Ner Diesel Tank- Possible background **Completion Depth:** 12.0 Feet

Logged By: James M. Salch



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-118

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/17/08 **Finish** 4/17/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 9.0 Feet

Logged By: James M. Salch

Depth (ft)	Lithology	USCS	Description	Depth (ft)	Sample Depth	Sample Number	Sampling Interval	Sample Type	Sample Recovery	TVA Readings PID	TVA Readings FID	Remarks
0			FILL: Mixture of sand & gravel with fines, concrete dry. (0 - 5.9')	0			0 - 4	Macro-Core	2.5 Feet			
6		FL	CLAYEY SILT: Dark gray-black clayey silt- moist, grading to mottled gray-brown clayey silt, moist-wet. (5.9' - 9.0')	6			4 - 8	Macro-Core	3.0 Feet			Strong petroleum odor, sheen. High PID Response. Water in core.
9		ML		9			8 - 12	Macro-Core	1.0 Feet			Refusal @ 9'.
15				15								

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FIELD BORING LOG

IEPA File No.: 0310030001 **Fed. ID No.:** ILD 981538689 **County:** Cook

Site File Name: Chicago Industrial Waste Haulers **Boring / Well No.:** X-119

GPS Coordinates: **Northing** Unspecified **Easting** Unspecified **Date:** **Start** 4/17/08 **Finish** 4/17/08

Equipment Used: Geoprobe 5400/Macro-Core Sampler/Discrete Sampler **Surface Elevation:** Unspecified

Location Description: See Map **Completion Depth:** 7.0 Feet

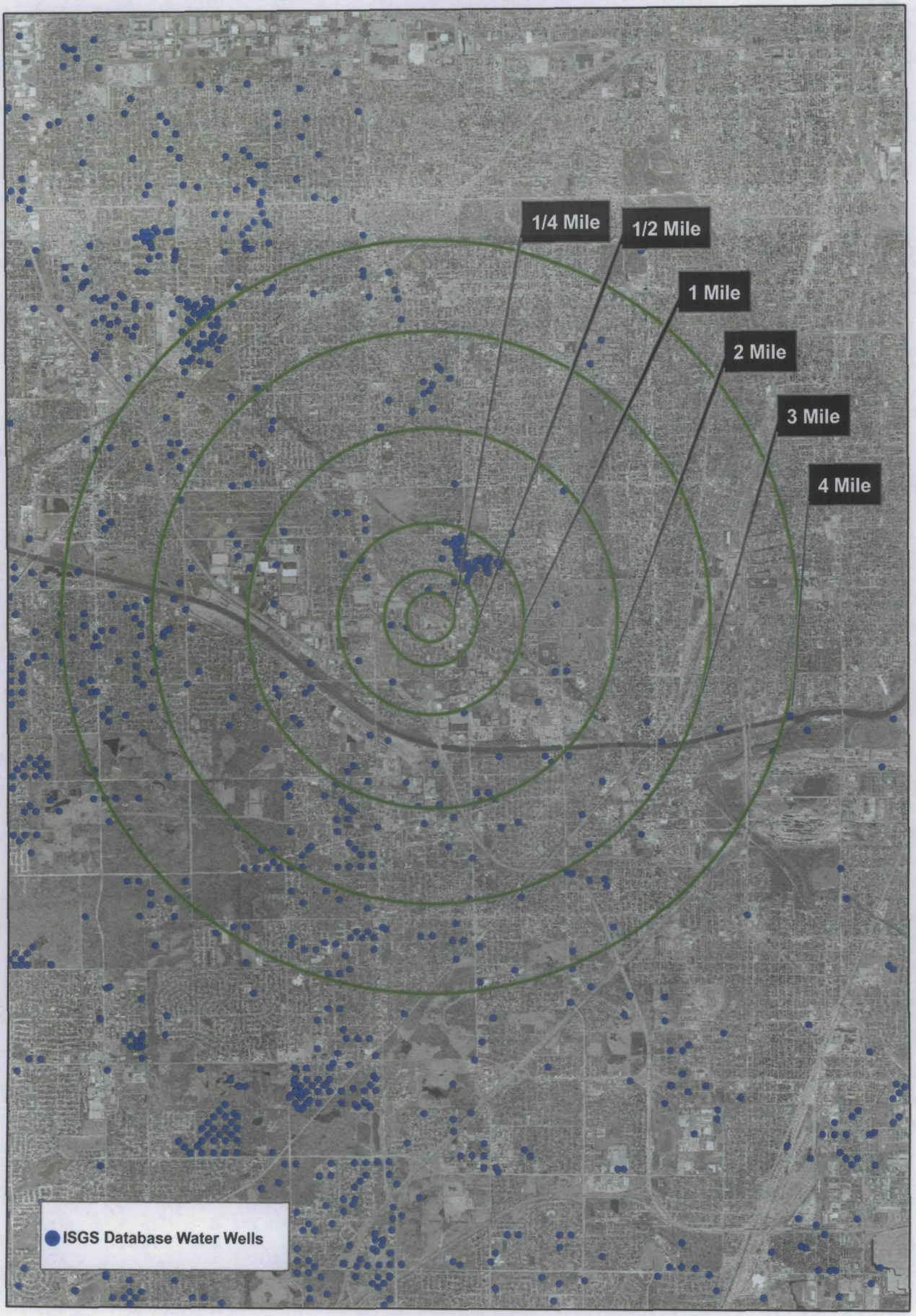
Logged By: James M. Salch

Depth (ft)	Lithology	USCS	Description	Depth (ft)	Sample Depth	Sample Number	Sampling Interval	Sample Type	Sample Recovery	TVA Readings PID	TVA Readings FID	Remarks
0		FL	FILL: Sand & gravel, concrete, mottled gray-brwon sitly clay	0			0 - 4	Macro-Core	3.2 Feet			Petroleum odors in 1st core
4		FL	FILL: Sand & gravel, concrete	4			4 - 8	Macro-Core	2.4 Feet			Strong odors 2nd cone, sheen
6.5		ML	SILT: Dark gray clayey silt	7								Refusal @ 7.0'
7				8								Screen 3' - 7'
15				15								

APPENDIX E

4-MILE RADIUS MAP

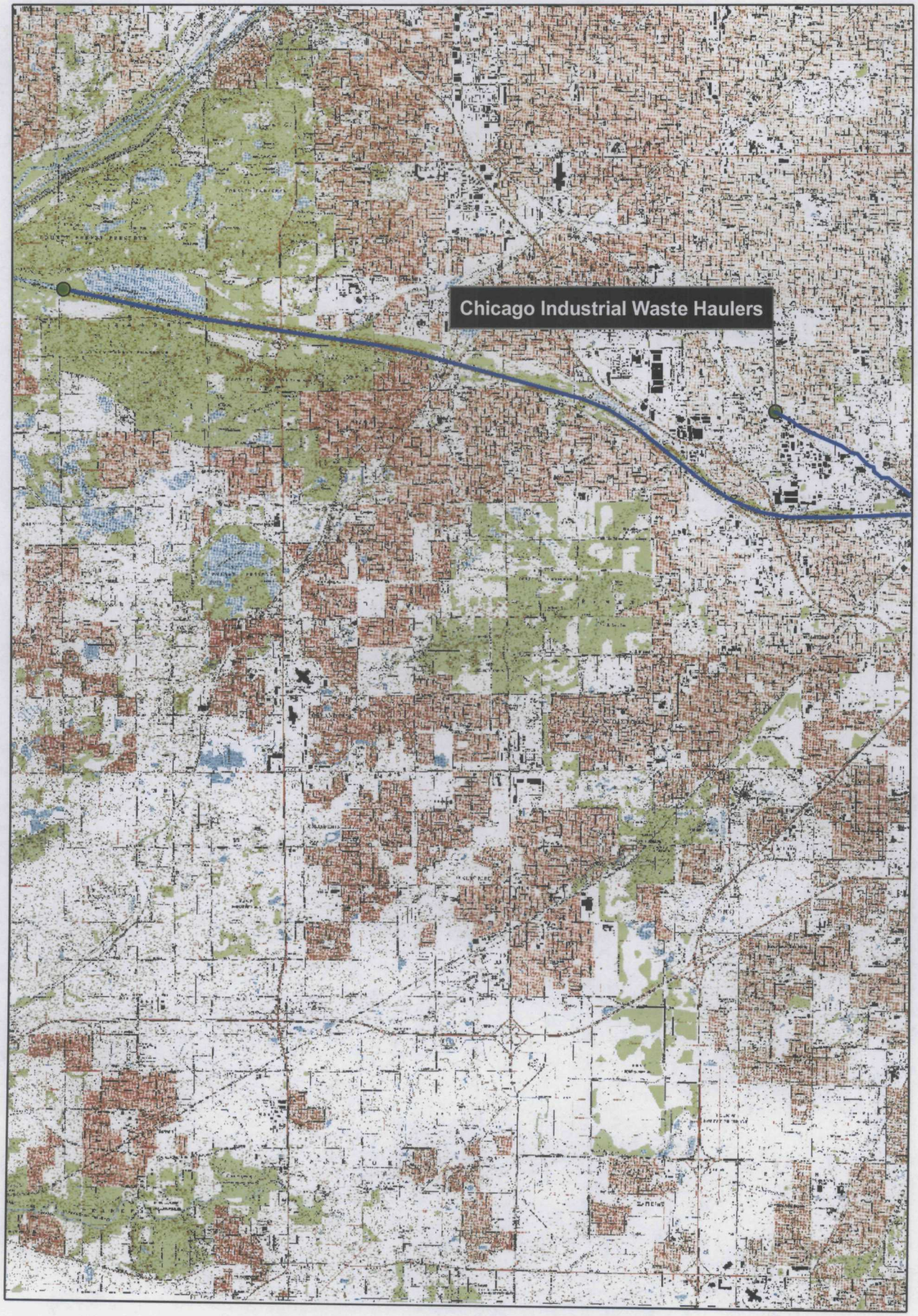
4-Mile Radius Map
Chicago Industrial Waste Haulers



APPENDIX F

15-Mile Target Distance Map

15-Mile Target Distance Limit
Chicago Industrial Waste Haulers



APPENDIX G

Ontario Sediment and Ecotox Threshold

SECTION 2

SEDIMENT QUALITY GUIDELINES

The essence of the guideline levels and their significance are provided below. The guidelines as set out define three levels of ecotoxic effects and are based on the chronic, long term effects of contaminants on benthic organisms. These levels are:

1. A No Effect Level at which no toxic effects have been observed on aquatic organisms. This is the level at which no biomagnification through the food chain is expected. Other water quality and use guidelines will also be met at this level.

2. A Lowest Effect Level indicating a level of sediment contamination that can be tolerated by the majority of benthic organisms.

3. A Severe Effect Level indicating the level at which pronounced disturbance of the sediment-dwelling community can be expected. This is the sediment concentration of a compound that would be detrimental to the majority of benthic species.

Guideline Levels and Their Significance

Guideline Level	Sediment Quality	Potential Impact
	Grossly Polluted	Will significantly affect use of sediment by benthic organisms.
Severe Effect Level		
	Marginally - Significantly Polluted	Will affect sediment use by some benthic organisms.
Lowest Effect Level		
	Clean - Marginally Polluted	Potential to affect some sensitive water uses.
No Effect Level		
	Clean	No impact on water quality water uses or benthic organisms anticipated.

Details on these levels, and the protocols used in developing the guidelines are provided in section 4 of this document.

The No Effect and Lowest Effect guidelines compare closely with the lowest or no effect levels determined through a review of sediment toxicity bioassays by National Oceanic and Atmospheric Administration (NOAA) (Long and Morgan, 1990)

As is discussed in Section 4.4, it is not currently possible to calculate a No Effect value for all parameters. Where this is the case for the metals, an interim value based on the lower of the background or Lowest Effect Levels will be used as a lower practical limit for management decisions. For the organics, the background values in Table 5 define the lower practical limit for management decisions.

Table 1: Provincial Sediment Quality Guidelines for Metals and Nutrients.
(values* in ug/g (ppm) dry weight unless otherwise noted)

METALS	No Effect Level	Lowest Effect Level	Severe Effect Level
Arsenic	-	6	33
Cadmium	-	0.6	10
Chromium	-	26	110
Copper	-	16	110
Iron (%)	-	2	4
Lead	-	31	250
Manganese	-	460	1100
Mercury	-	0.2	2
Nickel	-	16	75
Zinc	-	120	820
NUTRIENTS			
TOC (%)	-	1	10
TKN	-	550	4800
TP	-	600	2000

* - values less than 10 have been rounded to 1 significant digit. Values greater than 10 have been rounded to two significant digits except for round numbers which remain unchanged (e.g., 400).

"-" - denotes insufficient data/no suitable method.

TOC - Total Organic Carbon TKN - Total Kjeldahl Nitrogen TP - Total Phosphorus

(June 1992)

Table 2: Ecotox Thresholds for 67 Chemicals Commonly Found At Superfund Sites								
		Surface Water (ug/L)			Sediment (mg/kg)			
		Freshwater		Marine	EPA SQC[3]			
CAS Number	Chemical	AWQC or FCV[1]	Tier II[2]	AWQC or FCV[1]	Fresh-water	Marine	EPA SQB[4]	ERL[5]
	Metals (20)							
22569728	Arsenic III	190		36				8.2 t
17428410	Arsenic V		8.1 *					
7440393	Barium		3.9 *					
7440417	Beryllium		5.1 *					
7440439	Cadmium	1.0 h		9 3				1 2
1308141	Chromium III	180 h						81 t
18540299	Chromium VI	10		50				
7440484	Cobalt		3.0 *					
7440508	Copper	11 h		2.4				34
7439896	Iron	1000						
7439921	Lead	2.5 h		8.1				47
7439965	Manganese		80 *					
7439976	Mercury, inorganic	1.3		1.1				0.15 t
22967926	Mercury, methyl		0.003 *					
7439987	Molybdenum		240 *					
7440020	Nickel	160 h		8.2				21
7782492	Selenium	5.0		71				
7440622	Vanadium		19 *					
7440666	Zinc	100 h		81				150
57125	Cyanide	5 2		1.0				
	Organic Compounds (47)							
83329	Acenaphthene	23 S		40 S	0.62	1.1		0.016
71432	Benzene		46 *				0.057	
50328	Benzo(a)pyrene		0.014 *					0.43
92524	Biphenyl		14 #				1.1	
117817	Bis(2-ethylhexyl)phthalate		32 *					

Table 2 (continued)								
		Surface Water (ug/L)			Sediment (mg/kg)			
		Freshwater		Marine	EPA SQC[3]			
CAS Number	Chemical	AWQC or FCV[1]	Tier II[2]	AWQC or FCV[1]	Fresh-water	Marine	EPA SQB[4]	ERL[5]
101553	Bromophenyl phenyl ether, 4-		1.5 #				1.3	
85687	Butylbenzyl phthalate		19 #				11	
108907	Chlorobenzene		130 *				0.82	
50293	DDT		0.013 +					0.0016
333415	Diazinon	0.043 F					0.0019	
132649	Dibenzofuran		20 *				2.0	
95501	Dichlorobenzene, 1,2-		14 #				0.34	
541731	Dichlorobenzene, 1,3-		71 #				1.7	
106467	Dichlorobenzene, 1,4-		15 #				0.35	
75343	Dichloroethane, 1,1-		47 *					
60571	Dieldrin	0.062 S		0.11 S	0.052	0.095		
84662	Diethyl phthalate		220 *				0.63	
84742	Di-n-butyl phthalate		33 *				11	
115297	Endosulfan, mixed isomers		0.051 #				0.0054	
959988	Endosulfan, alpha		0.051 #				0.0029	
33213659	Endosulfan, beta		0.051 #				0.014	
72208	Endrin	0.061 S		0.01 S	0.02	0.0035		
100414	Ethylbenzene		290 *				3.6	
206440	Fluoranthene	8.1 S		11 S	2.9	1.4		0.6
86737	Fluorene		3.9 #				0.54	
76448	Heptachlor		0.0069 +					
67721	Hexachloroethane		12 #				1.0	
58899	Lindane/Hexachlorocyclohexane	0.08					0.0037	
121755	Malathion		0.097				0.00067	
72435	Methoxychlor		0.019 #				0.019	
91203	Naphthalene		24 *				0.48	0.16
608935	Pentachlorobenzene		0.47 #				0.69	
87865	Pentachlorophenol	13 pH		7.9				

Table 2 (continued)

CAS Number	Chemical	Surface Water (ug/L)			Sediment (mg/kg)			
		Freshwater		Marine	EPA SQC[3]			
		AWQC or FCV[1]	Tier II[2]	AWQC or FCV[1]	Fresh-water	Marine	EPA SQB[4]	ERL[5]
1000	Polynuclear aromatic hydrocarbons							4.0
11096825	Polychlorinated biphenyls		0.19 *					0.023
85018	Phenanthrene	6.3 S		8.3 S	0.85	1.1		0.24
129000	Pyrene							0.66
79345	*Tetrachloroethane, 1,1,2,2-*		420 *				0.94	
127184	Tetrachloroethylene		120 *				0.53	
56235	Tetrachloromethane		240 #				1.2	
108883	Toluene		130 *				0.67	
8001352	Toxaphene		0.011	0.21			0.028	
75252	*Tribromomethane*		320 #				0.65	
120821	Trichlorobenzene, 1,2,4-		110 #				9.2	
71556	Trichloroethane, 1,1,1-		62 *				0.17	
79016	Trichloroethylene		350 *				1.6	
108383	Xylene, m-		1.8 #				0 025	

[1]USEPA chronic ambient water quality criteria (AWQC) or EPA-derived final chronic values (FCVs) (USEPA, 1986a, 1986b, 1987). Metals concentrations are for total dissolved chemical.
[2]Values calculated using Great Lakes Water Quality Initiative Tier II methodology (40 CFR 9 et al.).
[3]USEPA Sediment Quality Criteria (SQC). Assumes 1 percent organic carbon (USEPA, 1993g). Values are lower limit of 95 percent confidence interval
[4]Sediment quality benchmarks (SQBs) by equilibrium partitioning Assumes 1 percent organic carbon. (USEPA, 1995b).
[5]ERL = Effects Range -- Low (Long *et al*., 1995)

Notes:
ug/L = micrograms per liter.
mg/kg = micrograms per kilogram.
h = hardness-dependent ambient water quality criterion (100 mg/L as $CaCO_3$ used).
pH = pH-dependent ambient water quality criterion (7 8 pH used).
S = final chronic value derived for EPA Sediment Quality Criteria documents (EPA, 1993a, b, c, d, e).
F = final chronic value calculated using Great Lakes Water Quality Initiative Tier I methodology.
t = value is for total of all chemical forms.
* = value as calculated in Suter and Mabrey, 1994.
+ = value with EPA support documents
# = value calculated for this project.

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Table 7 Sediment quality benchmarks

Substance	Ontario Sediment Quality Guidelines[I] (ppm)		Canadian Freshwater Sediment Quality Guidelines[II] (µg/kg)	Probable Effect Levels[II] (µg/kg)	Ontario Guideline for Use at Contaminated Sites Sediments-LEL[III] (mg/kg)
	LEL[IV]	SEL[V]			
Acenaphthene			6.71	88.9	
Acenaphthylene			5.87	128	
Aldrin	0.002	8			0.002
Ammonia		100[VI]			
Anthracene	0.22	370	46.9	245	0.22
Arsenic	6	33	5.9 mg/kg	17 mg/kg	6
Benzo(a)anthracene	0.32	1480	31.7	385	0.32
Benzo(k)fluoranthene	0.24	1340			0.24
Benzo(g,h,i)perylene	0.17	320			0.17
Benzo(a)pyrene	0.37	1440	31.9	782	0.37
Cadmium	0.6	10	0.6 mg/kg	3.5 mg/kg	0.6
Carbon, Total Organic (TOC)	1%	10%			
Chlordane	0.007	6	4.5	8.87	0.007
Chromium	26	110	37.3 mg/kg	90 mg/kg	(total) 26
Chrysene	0.34	460	57.1	862	0.34
Cobalt		50[VI]			50
Copper	16	110	35.7 mg/kg	197 mg/kg	16
Cyanide		0.1[VI]			0.1
DDD (*p,p-* and *o,p-)*	0.008	6	3.54	8.51	0.008
DDE (*p,p-* and *o,p-)*	0.005	19	1.42	6.75	0.005
DDT (*p,p-* and *o,p-)*	0.008 (total-0.007)	71 (total- 12)	1.19	4.77	0.007
Dibenzo(a,h)anthracene	0.06	130	6.22	135	0.06
Dieldrin	0.002	91	2.85	6.67	0.002
Endrin	0.003	130	2.67	62.4	0.003
Fluoranthene	0.75	1020	111	2355	0.75
Fluorene	0.19	160	21.2	144	0.19
Heptachlor epoxide	0.005	5	0.6	2.74	0.005
Hexachlorobenzene	0.02	24			0.02
Indeno(1,2,3-c,d) pyrene	0.2	320			0.2
Iron	2%	4%			
Lead	31	250	35 mg/kg	91.3 mg/kg	31
Lindane (BHC)	0.003	12	0.94	1.38	
Manganese	460	1100			
Mercury	0.2	2	0.17 mg/kg	0.486 mg/kg	0.2
Methylnaphthalene, 2-			20.2	201	
Mirex	0.007	130			
Naphthalene			34.6	391	
Nickel	16	75			16

Nitrogen (total kjeldahl) (TKN)	550	4800			
Nonylphenol and its ethoxylates			1.4 mg/kg		
Oil and Grease		0.15%[VI]			
PAH (total)	4	10000			
Phenanthrene	0.56	950	41.9	515	0.56
Phosphorus (total)	600	2000			
Polychlorinated biphenyls (PCBs)	(total) 0.07	530	(total) 34.1 (Aroclor 1254) 60	(total) 277 (Aroclor 1254) 340	(total) 0.07
Pyrene	0.49	850	53	875	0.49
Silver		0.5[VI]			0.5
Toxaphene			0.1		
Zinc	120	820	123 mg/kg	315 mg/kg	120

[I] Ontario Ministry of Environment and Energy, "Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario," August 1993, H H.

[II] Canadian Council of Ministers of the Environment, "Canadian Sediment Quality Guidelines for the Protection of Aquatic Life," 1999, updated 2002, H H.

[III] Ontario Ministry of Environment and Energy, "Guideline for Use at Contaminated Sites in Ontario," Appendix 2, Table E, Sediment Quality Criteria, February 1997, Appendix revised September 1998, H H.

[IV] Lowest Effect Level.

[V] Severe Effect Level.

[VI] From the Open Water Disposal Guidelines (OWDG).